



**STEELHEAD HARVEST, EFFORT, AND RELEASE ESTIMATES IN
IDAHO SPORT FISHERIES FOR RUN YEARS 1986-87 TO 2020-21
BASED ON TELEPHONE AND MAIL SURVEYS**

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ABSTRACT

A telephone survey of steelhead permit buyers was used to estimate the steelhead sport harvest, effort, and number of released fish for the spring season (January 1 to May 31) and fall season (July 1 to December 31) from 1983 to 2019. Beginning in 2020, steelhead sport harvest, effort, and released fish estimates were derived from a mail survey of steelhead permit buyers. Anglers are required to record the date and the river location code on their permit when harvesting a steelhead. The survey is designed to provide a statewide sport harvest, effort, and released fish estimate for each season, however a monthly harvest estimate for each location code is also provided. The statewide effort and released fish estimates are also reported for the season in each location code. The location code boundaries have not changed since 1986. The steelhead sport harvest, effort, and released fish estimates from the survey were entered into a statewide salmon and steelhead harvest database. This report describes the methodology for producing the estimates and summarizes that data for the fall 1986 to spring 2021 seasons. Statewide steelhead harvest estimates from 1954 to 1986 are also reported.

ACKNOWLEDGEMENT

This report is dedicated to the memory of "Young" Tom McArthur who generated the statewide steelhead harvest, effort, and released fish estimates based on the telephone survey from 1986 to 2014 and who wrote the original dBase III+ queries to derive those estimates. He also introduced the personal computer to the IDFG Fisheries Bureau.

INTRODUCTION

Steelhead fishing in Idaho occurs every month except June. Nearly all steelhead that enter Idaho pass Bonneville Dam between July 1 and November 30. These fish provide anglers with fishing opportunities in Idaho from July through May of the following year, hence within a calendar year anglers can harvest steelhead from two return years. Since steelhead enter freshwater in the summer and fall, over-winter, and spawn the following spring, harvest is usually reported by the Run Year, hereafter referred to as the Spawn Year (SY). Fish harvested in Spawn Year x is the sum of the fall season in year $x - 1$ and the spring season in year x . The number of steelhead returning to Idaho declined after the completion of four dams on the Snake River downstream of Lewiston. Ice Harbor Dam was the first dam constructed and it was completed in 1961. Lower Granite Dam was the last dam constructed and it was completed in June 1975. Following the construction of the four Lower Snake River dams, the total steelhead return declined to 13,829 in SY1975 and 16,608 in SY1976. To compensate for the construction of four dams downstream of Lewiston, hatcheries were constructed under the Lower Snake River Compensation Plan to provide anglers with steelhead for harvest and the total return of steelhead began increasing in the 1980's (Figure 1).

The first available sport harvest estimate for steelhead in Idaho is from 1954 (Table 1). The statewide steelhead harvest estimates from 1954 to 1963 were based on a postal survey. Bjornn (1967) found that these voluntarily returned postal survey results were biased high. The original 1954 to 1963 steelhead harvest estimates were adjusted and rounded to the nearest one-thousand fish (Keating 1969a) to account for this bias. The 1954 to 1963 harvest estimates shown in Table 1 are the original postal derived estimates reduced by 50% and may not equal the Keating adjusted value when rounded to the nearest one-thousand fish. The steelhead harvest estimates from 1964 to 1982 were derived from a postal survey of randomly chosen permit buyers. The steelhead harvest estimates from 1983 to 2019 were derived from a telephone survey using a stratified random sample of steelhead permit buyers. In 2020, due to COVID, the survey was done by mail using a stratified random sample of steelhead permit buyers. The survey has continued to be done by mail since 2020. Harvest estimates were made for the calendar year only from 1954 to 1959. Harvest estimates for the spring (January 1 to May 31) and fall (July 1 to December 31) seasons began in 1960. Steelhead regulations are unavailable for most years prior to 1985 and the harvest reports prior to 1985 often had an "other rivers" or "unknown" harvest estimate in the Salmon and Clearwater drainages. A brief history of sport fishing for steelhead since 1954 in Idaho follows:

- 1954 to 2021: open season every year except 1975.
- 1958: Brownlee Dam completed followed by Oxbow Dam in 1961 and Hells Canyon Dam in 1967 on the Snake River which blocked fish passage.
- 1973: Dworshak Dam completed on the North Fork (NF) Clearwater River which blocked fish passage.
- 1968: last reported steelhead harvest in Lemhi River.
- 1973: last reported steelhead harvest in Middle Fork (MF) Salmon River and its tributaries.
- 1973: last reported steelhead harvest in South Fork (SF) Salmon River.
- 1985: last reported steelhead harvest in North Fork (NF) Salmon River.
- 1987: the spring season was the last open season for steelhead in the Lochsa and Selway rivers.

- 1987: in the fall season, anglers could only retain hatchery origin steelhead with a clipped adipose fin. This regulation has been in effect since that time.

This report summarizes the harvest, released fish, and effort estimates for steelhead in the Clearwater, Salmon, and Snake drainages for the fall season (July 1 to December 31), spring season (January 1 to May 31), and Spawn Year (July 1 to June 30 of the following year, however steelhead fishing is closed statewide in June) from the fall 1986 to spring 2021 seasons that were derived from the survey. In many years excess hatchery steelhead were outplanted in the Boise River, Snake River upstream of Hells Canyon Dam, and the Payette River to provide additional sport fishing opportunity. I chose this time frame because harvest has been estimated in river location codes whose boundaries have not changed and the survey methodology was consistent. Harvest from 1954 to 1985 was estimated statewide, however survey methodology varied and the estimates that were made at a finer spatial scale did not have consistent river section boundaries.

HARVEST MONITORING METHODS

Harvest and effort estimates from 1954 to the fall season 1986 were published as Idaho Department of Fish and Game (IDFG) calendar year harvest reports (Hauck 1956 to 1960, Bjornn 1961 to 1968, Keating 1969 to 1971, Mallet 1972a and 1972b, Ortmann 1975 to 1981, Pollard 1982 and 1985, Partridge and Pollard 1983, Cochnauer 1986, Hall-Griswold and Cochnauer 1987, McArthur 1988a) without variance and confidence intervals. McArthur (1988b, 1989 to 1992) published a 1987 spring season harvest report and harvest reports for SY1988 to 1991 without variance and confidence intervals. Harvest estimates from the fall 1991 to the spring 2014 only exist in Excel files that were created by Tom McArthur and confidence intervals were only reported for the statewide estimates in some years. The first year of an Excel file containing estimates is from the fall 1989 season and there are files for each fall and spring season until the spring 2014. Beginning in the fall 2014, survey data used for the estimates were housed in an Access file that contains queries to generate point estimates and variances. I entered the harvest, effort, and released fish estimates (rounded to the nearest integer) into the statewide salmon and steelhead harvest database from the published yearly reports, the Excel files that are stored on the IDFG network drive, and the Access queries. In years with both a published report and an Excel file with estimates, I used the values in the Excel file if discrepancies were found. Most discrepancies were due to rounding error from entering values into the database as integers. I only report the point estimates of harvest, effort, and released fish in this report.

Location codes are used to identify the river section where steelhead were harvested (Table 2). The location codes and boundaries have remained unchanged during the time period of this report (1986 to 2021). After the spring or fall season ended, a list of all individuals that purchased a steelhead permit was obtained from the IDFG license database. A stratified random sample (Scheaffer et. al., 1986) was drawn from the list of individuals to estimate the mean number of steelhead harvested, mean effort, and mean number of clipped and unclipped steelhead released per individual in each strata. Effort was defined as the number of days fished for steelhead. Individuals chosen for the survey were asked to provide the number of steelhead kept and the location code where they caught steelhead each month, the number of days spent fishing for steelhead in each location code for the season, and the number of adipose clipped (clip or clipped) and adipose unclipped steelhead (unclip or unclipped) released during the season in each location code. Beginning in the fall 1987 season and continuing until 2021, anglers could only retain hatchery steelhead with a clipped adipose fin. Unclipped steelhead released during and after the fall 1987 season could be wild fish or hatchery origin fish released without an adipose fin clip. From the fall 1986 season to the spring 1997 season, there were two strata --resident or non-resident angler. From the fall 1997 season to the spring 2021 season, there were three strata based on the type of permit purchased--3-day steelhead permit, season steelhead permit, and the steelhead permit included in the sportsman package license. The sample size varied from 1986 to 2021, however it has been set to 8,500 individuals in recent years. The estimates were derived from those anglers that responded to the survey. The total number of responses has ranged from 1,463 to 5,696 (Table 3). The number of samples were allocated to each strata in proportion to the number of individuals purchasing a permit in that strata. Individuals that were selected for the survey were contacted by telephone from 1986 to 2019. Beginning in 2020, the survey has been done by mail. An initial mailing to all individuals selected was sent out followed by a second mailing to those who had not responded after a couple of months had passed. Individuals could mail their responses back to IDFG or enter them online. The methodology to select individuals for the survey; the survey questions asked; and methods to estimate harvest, released fish, and effort remained the same from 1986 to 2021. Since the total number of individuals that purchased a steelhead permit was known, the total number of steelhead harvested, total days fished, and total fish released statewide was:

$E_{Ti} = N_1y_{1i} + N_2y_{2i}$ for fall 1986 to spring 1997 seasons, where

E_T = statewide total for i,

i = harvest, effort, clipped fish released, unclipped fish released,

N_1 = total number of resident steelhead permit buyers,

N_2 = total number of non-resident steelhead permit buyers,

y_{1i} = mean i of resident steelhead permit buyers,

y_{2i} = mean i of non-resident steelhead permit buyers,

or

$E_{Ti} = N_1y_{1i} + N_2y_{2i} + N_3y_{3i}$ for fall 1997 to spring 2021 seasons, where

E_T = statewide total for i,

i = harvest, effort, clipped fish released, unclipped fish released,

N_1 = number of individuals purchasing a 3-day steelhead permit,

N_2 = number of individuals purchasing a season steelhead permit,

N_3 = number of individuals purchasing a sportsman package,

y_{1i} = mean i of individuals purchasing a 3-day steelhead permit,

y_{2i} = mean i of individuals purchasing a season steelhead permit,

y_{3i} = mean i of individuals purchasing a sportsman package.

Although the survey was designed to estimate statewide totals, managers are interested in estimates at a finer spatial scale. The statewide effort and released fish estimates were parsed into the location codes for the season using the responses of anglers from the phone survey as:

$$\sum_{s=1}^z [(r_{isc}/R_{is}) * S_{si}]$$

where,

s = strata used (z = two until fall 1997, then three),

i = effort, clipped released fish, unclipped released fish,

r_{isc} = reported effort or clip/unclip released fish from survey in strata s in location code c ,

R_{is} = total reported effort or clip/unclip released fish from the survey in strata s ,

S_{si} = the statewide strata s estimate of effort or clip/unclip released fish ($N_s y_{si}$).

The effort and released fish estimates for each season in each location code were entered as an integer in the statewide harvest database. If the sum of the effort and released fish estimates

by location code did not equal the rounded statewide effort or released fish estimate, the effort or released fish estimates by location code were adjusted to account for rounding error.

Managers are also interested in harvest estimates at a finer spatial and time scale than the season or Spawn Year. For that reason, the statewide harvest estimate was parsed into location codes and months using the responses of anglers from the phone survey as:

$$\sum_{s=1}^z [(h_{scm}/H_s) * SH_s]$$

where,

s = strata used (z = two until fall 1997, then three),

h_{scm} = reported harvest from survey in strata s , location code c , and month m ,

H_s = total reported harvest from survey in strata s ,

SH_s = the statewide harvest estimate in strata s ($N_{sy si}$), where i = harvest.

The harvest estimates in each location code by month were entered as an integer in the statewide harvest database. If the sum of the harvest estimates by location code and month in the database did not equal the rounded statewide harvest estimate, the harvest estimates by location code and month were adjusted to account for rounding error.

I report statewide estimates of harvest, effort, and released fish in the fall season, spring season, and SY in Table 4. Estimates in Table 4 include all location codes and those estimates that were reported for an unknown location. The fall season, spring season, and SY estimates of harvest, effort, and released fish are reported for the Clearwater drainage (Table 5), Salmon drainage (Table 6), Snake River (Table 7), and the Boise and Payette rivers (Table 8) and do not include estimates from unknown locations. The estimates in the Snake River include location code 27, which is upstream of Hells Canyon Dam. The Boise and Payette rivers are now inaccessible to steelhead and those fisheries are dependent on IDFG stocking excess hatchery steelhead for anglers.

The fall season, spring season, and SY estimates of harvest, effort, and released fish in each location code for the Clearwater drainage, Salmon drainage, and mainstem Snake River are reported in Tables 9 – 11. Tables 9 through 11 exclude any estimate(s) from an unknown location. The monthly harvest estimates by SY in each location code are reported in Appendices 1 – 35.

In some years anglers that were interviewed during the phone survey reported harvest, effort, or released fish in location codes that were closed to steelhead fishing. In these cases the estimates were reported but it was noted that fishing for steelhead was closed, however these cases were rare and usually only effort was reported. The effort reported in the SF Salmon River (closed to steelhead fishing in all years of the report) are suspected to be for Chinook Salmon, not steelhead fishing.

The estimates of clipped and unclipped steelhead released, although reported, are not viewed as very reliable. They rely on an angler remembering the number and the location code where fish were caught and released. Since the survey occurs after the season ends and anglers are not required to record released fish on their permit, the responses from them are suspect.

Additionally the definition of a released fish is not provided to those taking the survey and while many anglers consider a released fish one that is landed and released, some anglers may view a released fish as one that was hooked but not landed.

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FIGURES

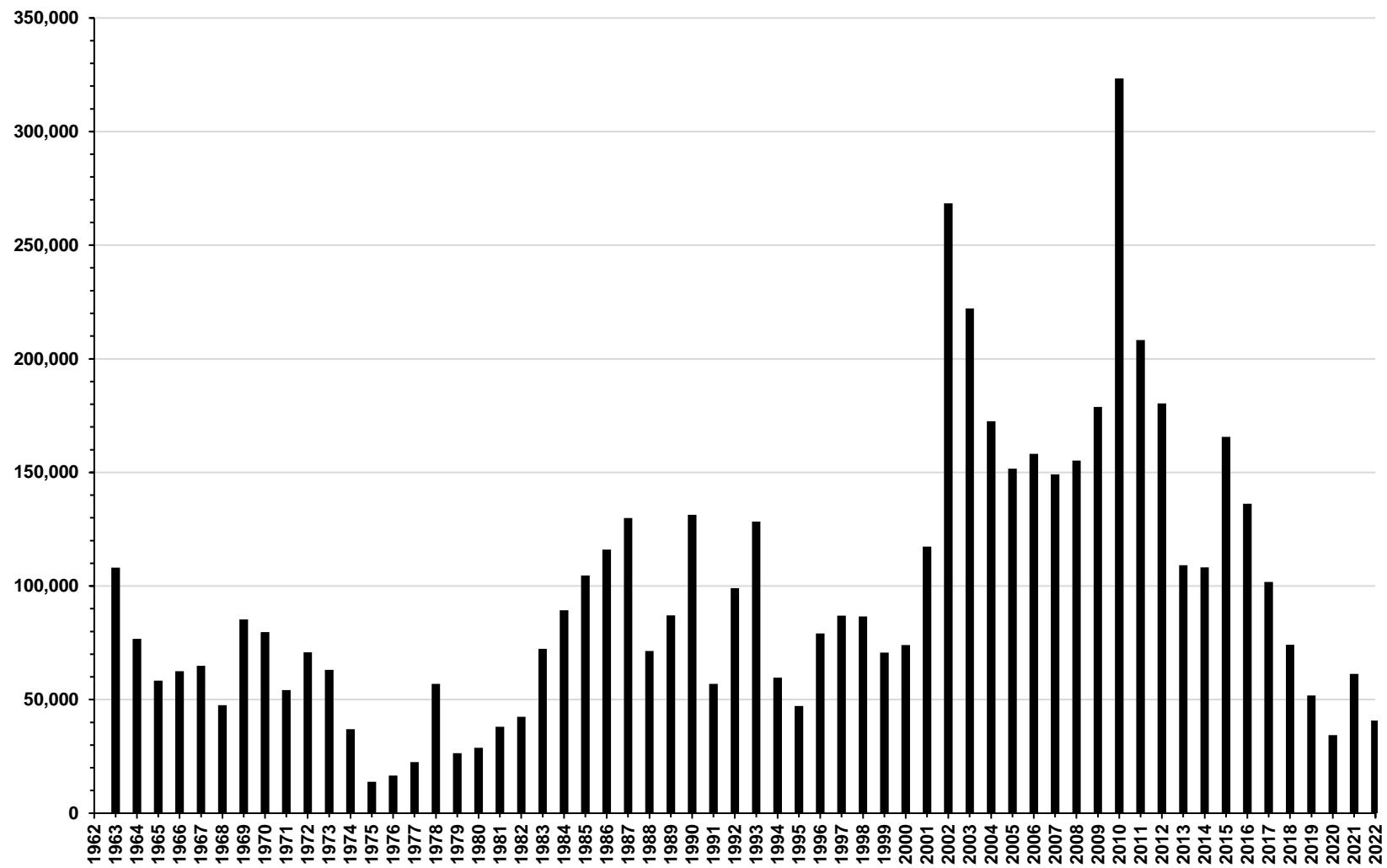


Figure 1. Total steelhead passage by Spawn Year (July 1 to June 30 of the following year) at Ice Harbor Dam (1963 – 1969), Lower Monumental Dam (1970), Little Goose Dam (1971 -1975) and, Lower Granite Dam (1976 – 2022).

TABLES

Table 1. Idaho sport harvest of steelhead by calendar year (CY) and Spawn Year (SY) from 1954 to 1986. na = not available. Errata: The SY total harvest from 1961 to 1964 and the 1986 CY total harvest in the original report (published June 2022) were incorrect. The values herein are correct.

Calendar year	CY total harvest	Spawn Year	Fall season harvest	Spring season harvest	SY total harvest
1954	12,605	1954	na	na	na
1955	13,130	1955	na	na	na
1956	7,886	1956	na	na	na
1957	19,772	1957	na	na	na
1958	29,816	1958	na	na	na
1959	31,000	1959	na	na	na
1960	29,996	1960	na	12,440	na
1961	25,682	1961	17,556	10,876	28,432
1962	19,523	1962	14,806	5,880	20,686
1963	27,395	1963	13,743	13,886	27,629
1964	17,781	1964	13,509	8,672	22,181
1965	19,524	1965	9,109	5,264	14,373
1966	20,410	1966	14,260	6,498	20,758
1967	24,469	1967	13,912	10,088	24,000
1968	24,617	1968	14,381	8,638	23,019
1969	17,187	1969	15,979	5,649	21,628
1970	20,681	1970	11,538	7,586	19,124
1971	17,661	1971	13,095	3,485	16,580
1972	13,524	1972	14,176	1,891	16,067
1973	10,432	1973	11,633	4,343	15,976
1974	3,010	1974	6,089	2,284	8,373
1975	0	1975	726	0	726
1976	2,247	1976	0	0	0
1977	12,855	1977	2,247	917	3,164
1978	11,616	1978	11,938	11,616	23,554
1979	5,667	1979	0	3,805	3,805
1980	9,103	1980	1,862	1,101	2,963
1981	12,961	1981	8,002	4,656	12,658
1982	20,350	1982	8,305	2,620	10,925
1983	32,262	1983	17,730	10,408	28,138
1984	24,593	1984	21,854	6,245	28,099
1985	34,364	1985	18,348	13,642	31,990
1986	39,893	1986	20,722	11,699	32,421

Table 2. Description of the location code boundaries used for Idaho sport fisheries since 1986. Steelhead fishing may not have been permitted in all location codes or in the entire river section from the downstream to upstream boundary in all years.

Location code	River	Downstream boundary	Upstream boundary
<u>Clearwater drainage</u>			
3	Clearwater River	Mouth	Orofino Bridge
4	Clearwater River	Orofino Bridge	SF Clearwater River
5	NF Clearwater River	Mouth	Dworshak Dam
6 ^a	MF Clearwater River	Mouth	confluence Lochsa and Selway rivers
7	SF Clearwater River	Mouth	confluence American and Red rivers
8 ^b	Lochsa River	Mouth	confluence Colt Killed and Crooked Fork creeks
9 ^b	Selway River	Mouth	Headwaters
<u>Salmon drainage</u>			
10	Salmon River	Mouth	Whitebird Creek
11	Salmon River	Whitebird Creek	Little Salmon River
12	Salmon River	Little Salmon River	Vinegar Creek
13	Salmon River	Vinegar Creek	SF Salmon River
14	Salmon River	SF Salmon River	MF Salmon River
15	Salmon River	MF Salmon River	NF Salmon River
16	Salmon River	NF Salmon River	Lemhi River
17	Salmon River	Lemhi River	Pahsimeroi River
18	Salmon River	Pahsimeroi River	EF Salmon River
19	Salmon River	EF Salmon River	Sawtooth Hatchery weir
20	Little Salmon River	Mouth	Smokey Boulder Road bridge
21 ^c	SF Salmon River	Mouth	Headwaters
22 ^c	MF Salmon River	Mouth	Headwaters
<u>Snake River</u>			
1	Snake River	ID/WA State Border	Salmon River
2	Snake River	Salmon River	Hells Canyon Dam
27	Snake River	Hells Canyon Dam	Oxbow Dam
<u>Other rivers</u>			
28	Boise River	Mouth	Barber Dam
29	Payette River	Mouth	Cascade Reservoir

^a In most years steelhead fishing was not allowed upstream of Clear Creek or the Nez Perce Indian Reservation boundary just upstream of Clear Creek.

^b These rivers were closed to steelhead fishing from May 1, 1987 to June 30, 2021.

^c These rivers were closed to steelhead fishing from July 1, 1986 to June 30, 2021.

Table 3. The number of individuals (N) that purchased a steelhead permit, number of survey responses (n), sample size, and response rate for the telephone steelhead harvest survey from 1986 to 2019 and the mail steelhead survey in 2020 and 2021. na = not available.

Year	Spring season				Fall season			
	N	n	Sample size	Response rate	N	n	Sample size	Response rate
1986	na	na	na	na	na	na	na	na
1987	26,897	3,129	na	na	39,976	4,530	na	na
1988	15,351	1,854	na	na	31,011	3,419	na	na
1989	20,482	1,980	na	na	39,577	3,855	na	na
1990	23,721	2,970	na	na	35,913	3,904	na	na
1991	20,249	2,082	na	na	35,225	3,889	na	na
1992	22,619	2,747	na	na	na	na	na	na
1993	29,138	2,562	na	na	45,218	3,460	na	na
1994	29,258	2,988	na	na	38,828	2,665	na	na
1995	22,182	1,463	na	na	36,899	3,215	na	na
1996	26,620	2,633	na	na	40,483	1,587	na	na
1997	23,368	1,559	na	na	40,941	2,345	na	na
1998	26,283	2,123	na	na	39,545	2,448	na	na
1999	28,729	2,456	na	na	44,290	2,867	na	na
2000	29,892	2,246	3,200	70.2%	44,861	3,443	na	na
2001	31,826	2,757	3,500	78.8%	55,239	3,811	na	na
2002	45,780	3,387	4,500	75.3%	61,750	4,710	6,146	76.6%
2003	45,711	3,273	4,500	72.7%	60,868	4,538	6,079	74.7%
2004	42,650	3,855	5,000	77.1%	58,586	4,550	6,000	75.8%
2005	41,303	3,229	4,300	75.1%	56,843	4,516	6,000	75.3%
2006	39,543	3,660	5,000	73.2%	56,578	4,336	6,000	72.3%
2007	40,748	3,532	5,250	67.3%	57,939	4,167	6,000	69.5%
2008	40,341	3,108	4,500	69.1%	58,202	3,971	6,000	66.2%
2009	42,250	3,272	5,000	65.4%	61,633	4,474	6,706	66.7%
2010	48,100	3,304	5,000	66.1%	62,564	4,014	6,500	61.8%
2011	41,298	3,446	5,500	62.7%	58,095	4,843	8,500	57.0%
2012	40,558	4,578	7,500	61.0%	53,159	5,242	8,500	61.7%
2013	37,514	4,623	7,500	61.6%	71,299	5,356	8,500	63.0%
2014	37,514	4,513	7,500	60.2%	52,689	5,551	8,500	65.3%
2015	44,371	4,721	8,500	55.5%	55,629	5,696	8,500	67.0%
2016	43,957	5,481	8,500	64.5%	54,808	5,696	8,500	67.0%
2017	36,870	5,454	8,500	64.2%	46,484	5,402	8,500	63.6%
2018	32,378	5,286	8,500	62.2%	49,079	4,680	8,500	55.1%
2019	32,596	4,874	8,500	57.3%	40,519	5,366	8,500	63.1%
2020	33,074	4,019	8,500	47.3%	50,239	4,421	8,500	52.0%
2021	44,817	3,857	8,500	45.4%	56,545	4,184	8,500	49.2%

Table 4. Statewide steelhead sport harvest, effort, and released fish estimates by Spawn Year (SY) from all location codes including estimates from unknown locations. The fall season was in the calendar year prior to the Spawn Year and the spring season was in the same calendar year as the Spawn Year. Effort is the number of days fished for steelhead.

Spawn Year	Fall Season (SY - 1)				Spring Season (SY)				Total			
	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
1987	162,799	28,194	8,322	29,858	106,109	19,805	8,478	13,152	268,908	47,999	16,800	43,010
1988	99,525	10,378	3,089	18,276	59,648	7,613	3,610	11,244	159,173	17,991	6,699	29,520
1989	97,738	13,718	7,717	17,033	77,449	9,803	5,834	9,704	175,187	23,521	13,551	26,737
1990	144,971	28,818	12,250	24,033	94,759	20,067	14,362	15,488	239,730	48,885	26,612	39,521
1991	86,857	10,496	9,309	12,124	55,962	8,695	7,615	8,695	142,819	19,191	16,924	20,819
1992	113,917	17,753	16,213	21,928	69,430	10,820	13,290	10,902	183,347	28,573	29,503	32,830
1993	132,664	26,131	21,730	22,040	84,582	18,550	16,537	13,250	217,246	44,681	38,267	35,290
1994	121,762	16,297	10,089	11,971	85,894	11,407	13,542	9,028	207,656	27,704	23,631	20,999
1995	86,369	9,732	14,235	11,058	63,195	9,886	11,584	6,034	149,564	19,618	25,819	17,092
1996	80,891	12,545	16,768	9,044	46,881	9,504	13,265	3,539	127,772	22,049	30,033	12,583
1997	87,853	16,734	23,647	12,270	50,258	10,477	17,597	5,036	138,111	27,211	41,244	17,306
1998	113,256	22,389	14,168	11,461	70,530	13,493	19,611	7,197	183,786	35,882	33,779	18,658
1999	67,232	12,463	9,296	8,056	67,794	12,574	21,267	6,490	135,026	25,037	30,563	14,546
2000	112,594	19,267	18,490	12,901	64,728	8,953	15,290	6,165	177,322	28,220	33,780	19,066
2001	108,875	19,930	20,971	16,936	84,444	16,014	28,893	10,429	193,319	35,944	49,864	27,365
2002	172,536	53,524	53,055	46,517	131,371	49,762	59,320	35,169	303,907	103,286	112,375	81,686
2003	173,964	40,543	41,078	55,100	136,759	42,449	57,452	73,126	310,723	82,992	98,530	128,226
2004	149,392	36,231	41,267	48,019	109,028	27,451	37,873	50,977	258,420	63,682	79,140	98,996
2005	151,564	39,863	35,173	48,355	102,698	24,994	32,483	41,295	254,262	64,857	67,656	89,650
2006	134,792	28,316	32,612	39,185	91,440	26,042	39,822	42,759	226,232	54,358	72,434	81,944
2007	115,906	25,331	21,966	27,234	91,564	26,478	42,520	40,876	207,470	51,809	64,486	68,110
2008	140,676	31,268	32,828	32,375	98,996	25,607	50,369	38,681	239,672	56,875	83,197	71,056
2009	157,803	31,288	38,608	43,555	114,625	29,986	51,460	66,687	272,428	61,274	90,068	110,242

Table 4 (continued)

Spawn Year	Fall Season (SY - 1)				Spring Season (SY)				Total			
	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
2010	162,153	57,572	46,146	75,289	145,749	62,390	88,139	102,541	307,902	119,962	134,285	177,830
2011	159,629	35,195	42,799	65,738	109,268	29,791	58,020	71,116	268,897	64,986	100,819	136,854
2012	145,463	34,893	40,340	59,420	114,285	32,656	54,525	79,437	259,748	67,549	94,865	138,857
2013	144,632	25,525	25,029	50,367	75,741	15,786	20,170	32,326	220,373	41,311	45,199	82,693
2014	164,142	24,787	27,611	55,711	62,618	11,669	21,571	22,959	226,760	36,456	49,182	78,670
2015	114,157	22,888	22,039	49,022	83,786	20,925	30,840	48,195	197,943	43,813	52,879	97,217
2016	109,125	19,987	22,159	47,842	71,794	18,406	26,033	31,377	180,919	38,393	48,192	79,219
2017	105,831	19,370	21,470	46,530	41,345	9,837	17,929	19,239	147,176	29,207	39,399	65,769
2018	58,285	8,336	17,278	14,861	43,907	6,567	18,434	11,918	102,192	14,903	35,712	26,779
2019	68,881	8,867	15,913	15,206	37,172	4,926	14,669	11,481	106,053	13,793	30,582	26,687
2020	35,168	2,858	6,198	8,817	23,855	1,826	10,872	7,311	59,023	4,684	17,070	16,128
2021	80,216	9,481	10,084	19,660	54,778	7,037	27,150	20,011	134,994	16,518	37,234	39,671

Table 5. Steelhead sport harvest, effort, and released fish estimates by Spawn Year (SY) in the Clearwater River drainage. The fall season was in the calendar year prior to the Spawn Year and the spring season was in the same calendar year as the Spawn Year. Effort is the number of days fished for steelhead.

Spawn Year	Fall Season (SY - 1)				Spring Season (SY)				Total			
	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
1987	50,900	8,200	3,451	8,559	37,711	7,634	2,510	3,877	88,611	15,834	5,961	12,436
1988	38,219	4,527	2,020	6,388	25,583	4,241	1,316	3,129	63,802	8,768	3,336	9,517
1989	40,941	6,274	3,156	5,242	32,926	5,297	2,421	2,658	73,867	11,571	5,577	7,900
1990	65,479	15,954	5,245	8,725	44,088	12,000	5,958	4,937	109,567	27,954	11,203	13,662
1991	42,252	6,984	4,240	5,463	31,570	5,991	2,461	3,180	73,822	12,975	6,701	8,643
1992	51,221	6,879	4,638	8,297	26,168	3,543	3,079	3,080	77,389	10,422	7,717	11,377
1993	58,592	9,899	8,739	8,899	42,307	9,455	6,848	5,777	100,899	19,354	15,587	14,676
1994	53,541	6,927	4,012	5,280	37,102	4,610	4,573	3,768	90,643	11,537	8,585	9,048
1995	32,490	3,479	5,114	4,487	19,195	2,472	1,425	1,456	51,685	5,951	6,539	5,943
1996	17,020	1,216	6,301	2,628	8,826	1,100	1,375	454	25,846	2,316	7,676	3,082
1997	25,763	3,621	8,061	3,419	10,208	1,305	3,253	555	35,971	4,926	11,314	3,974
1998	32,022	4,953	3,202	3,323	16,054	2,272	2,988	1,562	48,076	7,225	6,190	4,885
1999	20,923	4,010	3,951	3,009	20,713	4,765	9,974	2,644	41,636	8,775	13,925	5,653
2000	34,353	5,364	5,567	3,969	16,744	1,811	3,057	1,994	51,097	7,175	8,624	5,963
2001	42,589	6,899	9,117	6,931	29,082	5,334	6,993	3,716	71,671	12,233	16,110	10,647
2002	66,089	15,180	18,284	15,191	35,288	10,017	8,581	6,175	101,377	25,197	26,865	21,366
2003	61,313	12,543	17,818	22,114	50,402	17,621	22,221	38,014	111,715	30,164	40,039	60,128
2004	59,867	13,047	22,819	19,161	40,448	9,062	8,972	15,591	100,315	22,109	31,791	34,752
2005	56,210	11,759	12,602	17,588	36,463	8,848	12,724	17,147	92,673	20,607	25,326	34,735
2006	50,566	7,802	11,583	13,083	36,360	10,046	13,904	19,773	86,926	17,848	25,487	32,856
2007	41,966	8,542	8,759	10,297	41,755	12,359	18,290	19,936	83,721	20,901	27,049	30,233
2008	53,963	9,603	14,760	12,354	35,452	7,882	13,255	16,872	89,415	17,485	28,015	29,226
2009	63,010	12,001	19,368	17,973	47,045	13,702	17,182	38,703	110,055	25,703	36,550	56,676

Table 5 (continued)

Spawn Year	Fall Season (SY - 1)				Spring Season (SY)				Total			
	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
2010	54,995	12,151	10,883	20,877	34,398	8,595	8,673	19,135	89,393	20,746	19,556	40,012
2011	48,768	10,230	9,061	18,682	34,957	10,421	18,142	24,455	83,725	20,651	27,203	43,137
2012	56,422	11,543	19,572	27,278	56,943	14,085	24,561	52,382	113,365	25,628	44,133	79,660
2013	65,426	10,438	12,229	27,868	26,659	5,229	6,161	16,879	92,085	15,667	18,390	44,747
2014	48,382	3,085	10,899	20,525	14,591	1,622	7,027	9,675	62,973	4,707	17,926	30,200
2015	42,361	7,016	9,929	20,625	34,595	9,493	15,144	27,137	76,956	16,509	25,073	47,762
2016	45,288	7,227	10,300	21,662	27,379	4,663	6,954	16,548	72,667	11,890	17,254	38,210
2017	44,025	7,011	9,973	21,097	20,202	6,568	11,359	13,366	64,227	13,579	21,332	34,463
2018	19,284	1,730	8,806	7,472	14,971	1,095	9,163	7,299	34,255	2,825	17,969	14,771
2019	29,328	4,757	9,926	9,969	16,601	2,949	7,700	8,588	45,929	7,706	17,626	18,557
2020	5,960	166	2,406	3,082	9,488	412	5,761	4,596	15,448	578	8,167	7,678
2021	33,792	4,677	5,269	10,207	26,850	4,036	12,799	15,401	60,642	8,713	18,068	25,608

Table 6. Steelhead sport harvest, effort, and released fish estimates by Spawn Year (SY) in the Salmon River drainage. The fall season was in the calendar year prior to the Spawn Year and the spring season was in the same calendar year as the Spawn Year. Effort is the number of days fished for steelhead.

Spawn Year	Fall Season (SY - 1)				Spring Season (SY)				Total			
	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
1987	84,553	15,969	3,749	13,834	60,678	11,087	5,685	7,195	145,231	27,056	9,434	21,029
1988	47,266	4,209	910	9,417	29,453	2,776	2,021	6,541	76,719	6,985	2,931	15,958
1989	39,809	5,174	3,509	8,925	35,379	3,773	2,782	6,270	75,188	8,947	6,291	15,195
1990	53,959	8,275	4,940	11,417	40,983	6,835	7,589	9,433	94,942	15,110	12,529	20,850
1991	31,754	2,022	2,760	5,023	21,455	2,363	4,269	4,970	53,209	4,385	7,029	9,993
1992	39,563	6,509	5,480	9,130	36,733	6,001	8,441	6,505	76,296	12,510	13,921	15,635
1993	50,154	10,848	7,669	8,935	37,919	7,983	9,030	5,745	88,073	18,831	16,699	14,680
1994	45,546	5,253	3,842	4,377	40,910	5,729	6,707	4,172	86,456	10,982	10,549	8,549
1995	37,080	4,416	5,886	3,993	40,800	7,020	9,856	4,411	77,880	11,436	15,742	8,404
1996	44,693	6,772	6,450	4,327	35,749	8,152	11,638	2,933	80,442	14,924	18,088	7,260
1997	45,662	9,440	11,989	7,371	39,061	9,142	13,804	4,391	84,723	18,582	25,793	11,762
1998	58,740	11,462	6,782	5,721	49,559	10,368	15,013	4,447	108,299	21,830	21,795	10,168
1999	33,105	5,702	4,041	3,341	43,640	7,424	11,137	3,563	76,745	13,126	15,178	6,904
2000	54,846	9,998	9,425	4,827	44,687	6,915	11,790	3,510	99,533	16,913	21,215	8,337
2001	45,907	8,211	7,779	5,273	51,333	9,977	21,493	6,104	97,240	18,188	29,272	11,377
2002	76,141	25,088	24,361	18,938	86,580	35,983	46,754	26,608	162,721	61,071	71,115	45,546
2003	82,676	19,773	19,305	25,138	80,339	22,928	33,383	31,648	163,015	42,701	52,688	56,786
2004	69,393	16,101	15,210	21,765	62,673	16,535	25,403	32,438	132,066	32,636	40,613	54,203
2005	66,885	16,445	12,860	18,681	61,269	14,682	18,844	22,422	128,154	31,127	31,704	41,103
2006	61,254	12,121	15,143	17,961	52,097	14,901	25,045	22,323	113,351	27,022	40,188	40,284
2007	55,641	11,412	10,570	12,378	46,259	13,283	22,968	19,725	101,900	24,695	33,538	32,103
2008	61,827	14,473	14,174	13,882	58,390	16,221	35,117	20,067	120,217	30,694	49,291	33,949
2009	67,341	13,039	10,994	15,893	62,919	15,528	33,286	27,290	130,260	28,567	44,280	43,183

Table 6 (continued)

Spawn Year	Fall Season (SY - 1)				Spring Season (SY)				Total			
	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
2010	79,583	31,229	28,029	39,033	105,017	50,815	77,453	80,207	184,600	82,044	105,482	119,240
2011	86,194	17,355	29,398	36,467	68,892	17,647	37,952	41,488	155,086	35,002	67,350	77,955
2012	65,411	14,884	16,684	23,815	51,441	16,961	26,124	25,282	116,852	31,845	42,808	49,097
2013	58,196	11,028	9,895	15,638	45,352	9,897	12,897	14,230	103,548	20,925	22,792	29,868
2014	87,873	16,411	13,149	23,069	44,955	9,465	13,704	11,630	132,828	25,876	26,853	34,699
2015	53,202	11,082	9,680	20,030	43,369	9,897	14,925	18,225	96,571	20,979	24,605	38,255
2016	47,574	8,358	9,244	15,865	41,034	12,401	18,407	13,410	88,608	20,759	27,651	29,275
2017	46,073	8,091	8,959	15,459	18,403	2,943	5,667	3,689	64,476	11,034	14,626	19,148
2018	30,263	4,432	6,638	4,973	26,742	5,077	8,818	3,791	57,005	9,509	15,456	8,764
2019	31,711	2,433	4,836	3,205	19,214	1,772	6,446	2,504	50,925	4,205	11,282	5,709
2020	22,276	1,229	2,162	2,378	13,086	1,141	4,545	2,020	35,362	2,370	6,707	4,398
2021	32,289	2,204	2,715	4,847	25,353	2,593	14,215	4,104	57,642	4,797	16,930	8,951

Table 7. Steelhead sport harvest, effort, and released fish estimates by Spawn Year (SY) in the Snake River including the river upstream of Hells Canyon Dam. The fall season was in the calendar year prior to the Spawn Year and the spring season was in the same calendar year as the Spawn Year. Effort is the number of days fished for steelhead.

Spawn Year	Fall Season (SY - 1)				Spring Season (SY)				Total			
	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
1987	23,148	3,701	1,082	7,412	5,734	843	249	2,080	28,882	4,544	1,331	9,492
1988	14,040	1,642	159	2,471	4,612	596	273	1,574	18,652	2,238	432	4,045
1989	16,870	2,270	1,052	2,866	4,406	506	352	776	21,276	2,776	1,404	3,642
1990	17,268	4,292	1,592	3,891	4,880	832	400	1,118	22,148	5,124	1,992	5,009
1991	10,045	1,416	2,309	1,638	1,877	302	788	545	11,922	1,718	3,097	2,183
1992	22,327	4,329	6,077	4,492	6,290	1,276	1,729	1,317	28,617	5,605	7,806	5,809
1993	23,430	5,304	5,322	4,206	3,935	1,090	591	1,728	27,365	6,394	5,913	5,934
1994	22,675	4,117	2,235	2,314	7,334	852	1,743	1,019	30,009	4,969	3,978	3,333
1995	15,575	1,837	3,118	2,578	3,048	394	303	167	18,623	2,231	3,421	2,745
1996	17,399	4,293	3,845	2,089	2,154	252	212	152	19,553	4,545	4,057	2,241
1997	15,612	3,647	3,546	1,480	989	30	540	90	16,601	3,677	4,086	1,570
1998	20,225	5,903	4,095	2,417	4,733	853	1,598	1,176	24,958	6,756	5,693	3,593
1999	12,427	2,751	1,304	1,706	2,838	360	156	271	15,265	3,111	1,460	1,977
2000	19,702	3,720	3,435	4,105	3,116	227	443	661	22,818	3,947	3,878	4,766
2001	17,580	4,465	3,867	4,732	2,709	657	360	609	20,289	5,122	4,227	5,341
2002	25,962	12,668	10,209	12,374	7,803	3,625	3,732	2,386	33,765	16,293	13,941	14,760
2003	21,982	7,467	3,468	7,808	5,774	1,900	1,821	3,464	27,756	9,367	5,289	11,272
2004	15,365	6,121	2,712	7,042	5,226	1,854	3,498	2,948	20,591	7,975	6,210	9,990
2005	23,710	10,931	9,378	12,073	3,457	1,401	813	1,650	27,167	12,332	10,191	13,723
2006	18,277	7,458	5,376	7,605	2,768	1,095	850	663	21,045	8,553	6,226	8,268
2007	13,906	4,230	2,351	4,559	2,553	747	1,262	1,215	16,459	4,977	3,613	5,774
2008	19,154	6,681	3,598	6,139	4,120	1,416	1,694	1,742	23,274	8,097	5,292	7,881
2009	18,018	5,303	7,349	9,613	4,043	744	824	694	22,061	6,047	8,173	10,307

Table 7 (continued)

Spawn Year	Fall Season (SY - 1)				Spring Season (SY)				Total			
	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
2010	22,786	13,212	6,769	15,107	5,287	2,880	1,970	3,199	28,073	16,092	8,739	18,306
2011	19,021	6,552	3,959	10,526	4,933	1,723	1,901	5,173	23,954	8,275	5,860	15,699
2012	18,128	7,812	4,024	8,327	4,604	1,580	3,790	1,703	22,732	9,392	7,814	10,030
2013	17,659	3,830	2,714	6,850	2,983	636	1,094	1,217	20,642	4,466	3,808	8,067
2014	25,347	5,050	3,483	12,117	2,456	565	772	1,654	27,803	5,615	4,255	13,771
2015	14,032	4,348	2,199	8,367	5,367	1,525	771	2,833	19,399	5,873	2,970	11,200
2016	14,265	4,163	2,503	10,315	2,915	1,342	672	1,378	17,180	5,505	3,175	11,693
2017	13,809	4,037	2,431	9,974	2,199	305	765	2,184	16,008	4,342	3,196	12,158
2018	6,719	1,996	1,692	2,408	1,769	388	427	828	8,488	2,384	2,119	3,236
2019	6,869	1,597	1,141	2,032	1,206	205	523	389	8,075	1,802	1,664	2,421
2020	6,797	1,463	1,630	3,357	1,138	273	566	695	7,935	1,736	2,196	4,052
2021	10,859	2,445	1,933	4,383	2,041	408	136	506	12,900	2,853	2,069	4,889

Table 8. Steelhead sport harvest, effort, and released fish estimates by Spawn Year (SY) in the Boise and Payette rivers. These rivers are inaccessible to anadromous fish and fishing for steelhead only occurred in the years that excess hatchery fish were outplanted. The fall season was in the calendar year prior to the Spawn Year and the spring season was in the same calendar year as the Spawn Year. Effort is the number of days fished for steelhead.

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
Boise River													
1987	28	3,685	249	22	13	1,986	241	34	0	5,671	490	56	13
1988	28	0	0	0	0	0	0	0	0	0	0	0	0
1989	28	118	0	0	0	4,314	175	279	0	4,432	175	279	0
1990	28	7,156	236	452	0	4,776	376	399	0	11,932	612	851	0
1991	28	2,778	74	0	0	1,002	39	97	0	3,780	113	97	0
1992	28	797	36	18	9	239	0	41	0	1,036	36	59	9
1993	28	213	18	0	0	421	22	68	0	634	40	68	0
1994	28	0	0	0	0	509	216	519	69	509	216	519	69
1995	28	1,180	0	117	0	152	0	0	0	1,332	0	117	0
1996	28	1,722	264	172	0	152	0	40	0	1,874	264	212	0
1997	28	816	26	51	0	0	0	0	0	816	26	51	0
1998	28	2,056	71	89	0	184	0	12	12	2,240	71	101	12
1999	28	613	0	0	0	603	25	0	12	1,216	25	0	12
2000	28	3,630	185	63	0	139	0	0	0	3,769	185	63	0
2001	28	2,773	355	130	0	1,308	46	47	0	4,081	401	177	0
2002	28	4,344	588	201	14	1,673	137	253	0	6,017	725	454	14
2003	28	7,981	760	487	40	244	0	27	0	8,225	760	514	40
2004	28	4,767	962	526	51	681	0	0	0	5,448	962	526	51
2005	28	4,759	728	333	13	1,497	63	102	76	6,256	791	435	89
2006	28	4,695	935	510	536	215	0	23	0	4,910	935	533	536
2007	28	4,393	1,147	286	0	997	89	0	0	5,390	1,236	286	0

Table 8 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
<u>Boise River</u>													
2008	28	5,732	511	296	0	1,034	88	303	0	6,766	599	599	0
2009	28	9,434	945	897	76	618	12	168	0	10,052	957	1,065	76
2010	28	4,789	980	465	272	1,047	100	43	0	5,836	1,080	508	272
2011	28	5,646	1,058	381	63	486	0	25	0	6,132	1,058	406	63
2012	28	5,502	654	60	0	1,297	30	50	70	6,799	684	110	70
2013	28	3,351	229	191	11	747	24	18	0	4,098	253	209	11
2014	28	2,540	241	80	0	616	17	68	0	3,156	258	148	0
2015	28	4,562	442	231	0	455	10	0	0	5,017	452	231	0
2016	28	1,998	239	112	0	466	0	0	41	2,464	239	112	41
2017	28	1,924	231	107	0	541	21	138	0	2,465	252	245	0
2018	28	2,019	178	142	8	425	7	26	0	2,444	185	168	8
2019	28	973	80	10	0	151	0	0	0	1,124	80	10	0
2020	28	135	0	0	0	143	0	0	0	278	0	0	0
2021	28	3,276	155	167	223	534	0	0	0	3,810	155	167	223
<u>Payette River</u>													
1987	29	0	0	0	0	0	0	0	0	0	0	0	0
1988	29	0	0	0	0	0	0	0	0	0	0	0	0
1989	29	0	0	0	0	424	52	0	0	424	52	0	0
1990	29	1,109	61	21	0	32	24	16	0	1,141	85	37	0
1991	29	28	0	0	0	58	0	0	0	86	0	0	0
1992	29	9	0	0	0	0	0	0	0	9	0	0	0
1993	29	275	62	0	0	0	0	0	0	275	62	0	0
1994	29	0	0	0	0	39	0	0	0	39	0	0	0
1995	29	44	0	0	0	0	0	0	0	44	0	0	0
1996	29	57	0	0	0	0	0	0	0	57	0	0	0
1997	29	0	0	0	0	0	0	0	0	0	0	0	0

Table 8 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
<u>Payette River</u>													
1998	29	213	0	0	0	0	0	0	0	213	0	0	0
1999	29	164	0	0	0	0	0	0	0	164	0	0	0
2000	29	63	0	0	0	42	0	0	0	105	0	0	0
2001	29	26	0	78	0	12	0	0	0	38	0	78	0
2002	29	0	0	0	0	27	0	0	0	27	0	0	0
2003	29	12	0	0	0	0	0	0	0	12	0	0	0
2004	29	0	0	0	0	0	0	0	0	0	0	0	0
2005	29	0	0	0	0	12	0	0	0	12	0	0	0
2004 to 2021		No steelhead were outplanted. No reported effort or harvest in the surveys.											

Table 9. Steelhead sport harvest, effort, and released fish estimates by Spawn Year (SY) and location code in the Clearwater River drainage. The fall season was in the calendar year prior to the Spawn Year and the spring season was in the same calendar year as the Spawn Year. Effort is the number of days fished for steelhead.

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
1987	3	41,291	6,468	2,422	6,973	12,533	2,235	1,341	1,814	53,824	8,703	3,763	8,787
1987	4	4,749	789	573	883	6,404	1,108	223	696	11,153	1,897	796	1,579
1987	5	3,818	879	439	677	12,636	3,052	722	937	16,454	3,931	1,161	1,614
1987	6	241	39	17	0	2,648	560	77	344	2,889	599	94	344
1987	7	353	17	0	22	3,490	679	147	86	3,843	696	147	108
1987	8	13	4	0	4	0	0	0	0	13	4	0	4
1987	9	435	4	0	0	0	0	0	0	435	4	0	0
1988	3	29,385	3,477	1,517	4,922	15,855	2,826	861	2,525	45,240	6,303	2,378	7,447
1988	4	4,757	652	168	424	3,171	348	166	116	7,928	1,000	334	540
1988	5	3,415	389	335	1,024	3,767	761	248	248	7,182	1,150	583	1,272
1988	6	97	0	0	9	720	83	8	141	817	83	8	150
1988	7	565	9	0	9	2,070	223	33	99	2,635	232	33	108
1989	3	34,494	5,415	2,812	4,725	15,734	2,617	817	1,604	50,228	8,032	3,629	6,329
1989	4	3,283	489	118	345	2,710	218	52	259	5,993	707	170	604
1989	5	2,104	271	217	109	7,396	1,500	1,076	579	9,500	1,771	1,293	688
1989	6	734	99	9	63	2,845	269	52	82	3,579	368	61	145
1989	7	326	0	0	0	4,241	693	424	134	4,567	693	424	134
1990	3	52,708	12,535	4,322	7,525	26,565	7,700	4,217	3,929	79,273	20,235	8,539	11,454
1990	4	3,922	946	297	770	5,726	1,287	423	432	9,648	2,233	720	1,202
1990	5	7,309	2,289	606	369	8,634	2,685	1,094	384	15,943	4,974	1,700	753
1990	6	800	133	20	51	735	72	112	88	1,535	205	132	139
1990	7	740	51	0	10	2,428	256	112	104	3,168	307	112	114
1991	3	36,383	6,311	3,706	5,141	17,653	3,678	1,323	2,071	54,036	9,989	5,029	7,212
1991	4	1,969	240	267	166	4,668	748	428	360	6,637	988	695	526

Table 9 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
1991	5	3,063	433	267	138	5,670	973	321	263	8,733	1,406	588	401
1991	6	340	0	0	0	1,410	281	136	175	1,750	281	136	175
1991	7	497	0	0	18	2,169	311	253	311	2,666	311	253	329
1992	3	40,877	5,774	3,569	6,513	14,863	2,201	2,026	2,042	55,740	7,975	5,595	8,555
1992	4	4,656	453	281	996	2,898	288	296	231	7,554	741	577	1,227
1992	5	5,081	643	788	553	5,953	881	683	634	11,034	1,524	1,471	1,187
1992	6	154	0	0	0	371	82	66	49	525	82	66	49
1992	7	453	9	0	235	2,083	91	8	124	2,536	100	8	359
1993	3	49,196	8,375	5,678	7,596	25,542	5,553	3,584	3,809	74,738	13,928	9,262	11,405
1993	4	4,233	717	1,886	930	4,720	1,150	682	830	8,953	1,867	2,568	1,760
1993	5	4,233	682	1,133	319	8,155	1,878	1,524	626	12,388	2,560	2,657	945
1993	6	319	63	24	27	944	238	125	80	1,263	301	149	107
1993	7	611	62	18	27	2,946	636	933	432	3,557	698	951	459
1994	3	41,896	5,973	2,692	4,222	25,665	3,337	2,468	2,701	67,561	9,310	5,160	6,923
1994	4	5,711	628	575	653	2,947	235	578	548	8,658	863	1,153	1,201
1994	5	3,790	222	549	170	4,945	627	323	215	8,735	849	872	385
1994	6	889	52	65	196	627	68	78	69	1,516	120	143	265
1994	7	1,255	52	131	39	2,918	343	1,126	235	4,173	395	1,257	274
1995	3	27,127	3,215	4,590	4,136	11,007	1,275	485	819	38,134	4,490	5,075	4,955
1995	4	1,807	146	189	277	1,016	212	212	152	2,823	358	401	429
1995	5	1,909	59	73	44	3,760	667	561	379	5,669	726	634	423
1995	6	889	44	189	15	152	15	0	0	1,041	59	189	15
1995	7	758	15	73	15	3,260	303	167	106	4,018	318	240	121
1996	3	13,853	1,171	5,796	2,364	2,426	232	222	192	16,279	1,403	6,018	2,556
1996	4	849	23	184	138	1,203	233	192	91	2,052	256	376	229
1996	5	1,526	11	92	80	2,406	303	283	30	3,932	314	375	110
1996	6	241	0	103	46	233	60	51	10	474	60	154	56
1996	7	551	11	126	0	2,558	272	627	131	3,109	283	753	131

Table 9 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
1997	3	22,498	3,135	7,524	3,009	3,972	645	794	330	26,470	3,780	8,318	3,339
1997	4	1,352	358	281	332	1,604	120	315	45	2,956	478	596	377
1997	5	1,071	128	204	26	2,428	390	1,919	180	3,499	518	2,123	206
1997	6	434	0	26	26	150	0	0	0	584	0	26	26
1997	7	408	0	26	26	2,054	150	225	0	2,462	150	251	26
1998	3	23,244	3,825	2,660	1,928	7,031	902	1,110	1,120	30,275	4,727	3,770	3,048
1998	4	3,562	493	239	167	2,910	297	573	223	6,472	790	812	390
1998	5	3,167	444	179	1,192	2,576	445	568	61	5,743	889	747	1,253
1998	6	548	54	0	18	1,163	146	158	73	1,711	200	158	91
1998	7	1,501	137	124	18	2,374	482	579	85	3,875	619	703	103
1999	3	17,100	3,097	3,061	2,018	8,087	1,800	5,291	1,580	25,187	4,897	8,352	3,598
1999	4	990	212	175	420	2,226	741	687	130	3,216	953	862	550
1999	5	1,839	589	196	412	3,861	727	657	418	5,700	1,316	853	830
1999	6	743	96	473	98	1,472	378	177	166	2,215	474	650	264
1999	7	251	16	46	61	5,067	1,119	3,162	350	5,318	1,135	3,208	411
2000	3	28,189	4,765	4,869	3,475	8,159	845	923	1,031	36,348	5,610	5,792	4,506
2000	4	2,748	283	199	228	1,996	204	320	317	4,744	487	519	545
2000	5	2,721	300	452	171	1,923	163	179	83	4,644	463	631	254
2000	6	0	0	0	0	497	149	80	28	497	149	80	28
2000	7	695	16	47	95	4,169	450	1,555	535	4,864	466	1,602	630
2001	3	36,307	6,199	8,236	6,033	14,557	2,425	2,322	1,606	50,864	8,624	10,558	7,639
2001	4	3,032	532	717	769	4,228	703	1,020	399	7,260	1,235	1,737	1,168
2001	5	1,630	116	64	78	5,842	1,027	1,609	637	7,472	1,143	1,673	715
2001	6	227	39	12	25	188	12	12	12	415	51	24	37
2001	7	1,393	13	88	26	4,267	1,167	2,030	1,062	5,660	1,180	2,118	1,088
2002	3	57,410	13,494	16,155	13,909	18,760	4,733	1,957	3,016	76,170	18,227	18,112	16,925
2002	4	5,379	1,174	740	996	6,580	1,696	1,248	982	11,959	2,870	1,988	1,978
2002	5	2,289	378	200	157	5,020	1,353	587	756	7,309	1,731	787	913

Table 9 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2002	6	0	0	0	0	0	0	0	0	0	0	0	0
2002	7	1,011	134	1,189	129	4,928	2,235	4,789	1,421	5,939	2,369	5,978	1,550
2003	3	52,502	11,285	16,363	20,161	20,557	5,864	3,593	8,049	73,059	17,149	19,956	28,210
2003	4	3,664	459	717	750	7,599	1,950	2,488	3,678	11,263	2,409	3,205	4,428
2003	5	4,356	666	463	645	7,895	3,987	5,300	2,724	12,251	4,653	5,763	3,369
2003	6	53	53	53	27	0	0	0	0	53	53	53	27
2003	7	738	80	222	531	14,351	5,820	10,840	23,563	15,089	5,900	11,062	24,094
2004	3	50,071	10,767	14,014	15,558	16,121	3,621	3,265	4,332	66,192	14,388	17,279	19,890
2004	4	3,761	1,099	587	1,240	7,572	1,664	1,653	2,652	11,333	2,763	2,240	3,892
2004	5	4,049	684	7,532	1,449	5,127	1,304	1,363	1,678	9,176	1,988	8,895	3,127
2004	6	0	0	0	0	0	0	0	0	0	0	0	0
2004	7	1,986	497	686	914	11,628	2,473	2,691	6,929	13,614	2,970	3,377	7,843
2005	3	44,352	9,796	9,719	15,069	14,353	3,214	3,878	5,125	58,705	13,010	13,597	20,194
2005	4	5,966	1,000	624	1,201	7,610	1,772	1,678	3,133	13,576	2,772	2,302	4,334
2005	5	4,131	911	2,077	914	5,868	1,682	3,030	2,187	9,999	2,593	5,107	3,101
2005	6	0	0	0	0	0	0	0	0	0	0	0	0
2005	7	1,761	52	182	404	8,632	2,180	4,138	6,702	10,393	2,232	4,320	7,106
2006	3	40,545	6,463	9,722	10,895	12,653	2,664	3,102	3,863	53,198	9,127	12,824	14,758
2006	4	4,203	432	642	909	7,159	2,241	1,910	4,448	11,362	2,673	2,552	5,357
2006	5	3,702	882	537	649	6,777	2,457	3,026	2,122	10,479	3,339	3,563	2,771
2006	6	0	0	0	0	0	0	0	0	0	0	0	0
2006	7	2,116	25	682	630	9,771	2,684	5,866	9,340	11,887	2,709	6,548	9,970
2007	3	30,762	6,899	5,470	7,074	11,715	3,028	3,275	3,552	42,477	9,927	8,745	10,626
2007	4	5,603	863	1,397	1,456	6,881	2,280	1,493	2,424	12,484	3,143	2,890	3,880
2007	5	3,504	754	1,112	600	8,485	2,572	4,051	2,560	11,989	3,326	5,163	3,160
2007	6	0	0	0	0	0	0	0	0	0	0	0	0
2007	7	2,097	26	780	1,167	14,674	4,479	9,471	11,400	16,771	4,505	10,251	12,567
2008	3	41,813	7,487	12,117	10,012	10,035	1,593	1,757	2,958	51,848	9,080	13,874	12,970

Table 9 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2008	4	5,935	1,019	916	1,493	6,150	1,290	1,429	2,300	12,085	2,309	2,345	3,793
2008	5	3,527	653	533	390	5,420	1,193	1,781	1,108	8,947	1,846	2,314	1,498
2008	6	0	0	0	0	0	0	0	0	0	0	0	0
2008	7	2,688	444	1,194	459	13,847	3,806	8,288	10,506	16,535	4,250	9,482	10,965
2009	3	46,034	9,080	15,109	13,832	14,898	4,719	3,948	6,158	60,932	13,799	19,057	19,990
2009	4	8,160	1,604	2,005	2,134	11,095	3,191	4,038	5,880	19,255	4,795	6,043	8,014
2009	5	5,896	994	1,503	883	6,501	1,713	1,351	2,137	12,397	2,707	2,854	3,020
2009	6	0	0	0	0	0	0	0	0	0	0	0	0
2009	7	2,920	323	751	1,124	14,551	4,079	7,845	24,528	17,471	4,402	8,596	25,652
2010	3	41,140	9,329	7,584	15,324	13,718	3,710	4,292	7,242	54,858	13,039	11,876	22,566
2010	4	7,118	1,711	1,994	3,563	6,201	1,319	705	1,985	13,319	3,030	2,699	5,548
2010	5	5,000	1,010	631	974	4,297	1,806	1,261	2,222	9,297	2,816	1,892	3,196
2010	6	0	0	0	0	0	0	0	0	0	0	0	0
2010	7	1,737	101	674	1,016	10,182	1,760	2,415	7,686	11,919	1,861	3,089	8,702
2011	3	34,839	7,269	6,420	14,271	8,399	3,053	3,577	5,859	43,238	10,322	9,997	20,130
2011	4	4,856	922	980	1,414	7,379	1,709	1,461	3,429	12,235	2,631	2,441	4,843
2011	5	5,069	1,360	827	1,160	7,700	2,505	5,547	4,177	12,769	3,865	6,374	5,337
2011	6	0	0	0	0	0	0	0	0	0	0	0	0
2011	7	4,004	679	834	1,837	11,479	3,154	7,557	10,990	15,483	3,833	8,391	12,827
2012	3	43,285	9,428	16,156	22,219	16,989	3,709	8,997	9,816	60,274	13,137	25,153	32,035
2012	4	6,797	1,346	1,396	2,386	9,175	1,629	2,947	5,728	15,972	2,975	4,343	8,114
2012	5	3,821	683	1,027	814	8,831	2,711	2,383	4,542	12,652	3,394	3,410	5,356
2012	6	0	0	0	0	0	0	0	0	0	0	0	0
2012	7	2,519	86	993	1,859	21,948	6,036	10,234	32,296	24,467	6,122	11,227	34,155
2013	3	50,002	8,633	9,498	22,572	9,405	2,084	1,670	3,834	59,407	10,717	11,168	26,406
2013	4	8,655	1,113	1,553	2,923	5,546	1,205	1,242	2,864	14,201	2,318	2,795	5,787
2013	5	3,646	504	375	785	2,906	391	385	602	6,552	895	760	1,387
2013	6	0	0	0	0	0	0	0	0	0	0	0	0

Table 9 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2013	7	3,123	188	803	1,588	8,802	1,549	2,864	9,579	11,925	1,737	3,667	11,167
2014	3	38,089	2,543	8,414	17,005	4,976	389	2,239	2,563	43,065	2,932	10,653	19,568
2014	4	5,418	250	661	736	2,283	187	737	720	7,701	437	1,398	1,456
2014	5	2,403	132	677	852	1,593	126	642	433	3,996	258	1,319	1,285
2014	6	0	0	0	0	0	0	0	0	0	0	0	0
2014	7	2,472	160	1,147	1,932	5,739	920	3,409	5,959	8,211	1,080	4,556	7,891
2015	3	30,578	5,574	7,861	17,626	11,151	3,271	4,721	8,658	41,729	8,845	12,582	26,284
2015	4	4,640	685	850	1,662	6,976	1,923	2,436	4,264	11,616	2,608	3,286	5,926
2015	5	4,082	641	777	557	5,304	2,083	3,724	2,461	9,386	2,724	4,501	3,018
2015	6	0	0	0	0	0	0	0	0	0	0	0	0
2015	7	3,061	116	441	780	11,164	2,216	4,263	11,754	14,225	2,332	4,704	12,534
2016	3	34,055	5,323	8,349	16,073	9,541	1,571	2,143	5,369	43,596	6,894	10,492	21,442
2016	4	5,606	866	505	2,473	5,626	1,126	1,343	3,018	11,232	1,992	1,848	5,491
2016	5	3,235	891	387	1,030	3,952	802	498	1,288	7,187	1,693	885	2,318
2016	6	0	0	0	0	0	0	0	0	0	0	0	0
2016	7	2,392	147	1,059	2,086	8,260	1,164	2,970	6,873	10,652	1,311	4,029	8,959
2017	3	33,113	5,168	8,072	15,652	6,664	1,930	2,804	3,658	39,777	7,098	10,876	19,310
2017	4	5,454	841	489	2,415	2,985	1,008	1,125	1,368	8,439	1,849	1,614	3,783
2017	5	3,123	859	375	998	4,060	2,120	2,000	1,506	7,183	2,979	2,375	2,504
2017	6	0	0	0	0	22	0	0	7	22	0	0	7
2017	7	2,335	143	1,037	2,032	6,471	1,510	5,430	6,827	8,806	1,653	6,467	8,859
2018	3	9,921	944	4,311	4,099	2,884	351	1,798	1,483	12,805	1,295	6,109	5,582
2018	4	3,298	205	1,880	1,344	2,207	142	1,083	916	5,505	347	2,963	2,260
2018	5	3,021	478	1,693	707	2,289	193	1,373	1,217	5,310	671	3,066	1,924
2018	6	352	8	183	118	221	59	143	39	573	67	326	157
2018	7	2,692	95	739	1,204	7,370	350	4,766	3,644	10,062	445	5,505	4,848
2019	3	19,632	3,482	7,283	7,426	3,619	547	1,980	1,731	23,251	4,029	9,263	9,157
2019	4	4,509	728	1,313	1,342	2,971	456	1,499	1,626	7,480	1,184	2,812	2,968

Table 9 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2019	5	3,131	409	523	445	3,684	869	1,236	1,010	6,815	1,278	1,759	1,455
2019	6	167	35	21	76	401	68	145	159	568	103	166	235
2019	7	1,889	103	786	680	5,926	1,009	2,840	4,062	7,815	1,112	3,626	4,742
2020	3	3,821	130	1,551	1,787	3,417	126	3,293	1,865	7,238	256	4,844	3,652
2020	4	653	22	351	457	1,969	50	772	754	2,622	72	1,123	1,211
2020	5	638	14	203	177	195	0	71	94	833	14	274	271
2020	6	130	0	0	83	483	11	144	145	613	11	144	228
2020	7	718	0	301	578	3,424	225	1,481	1,738	4,142	225	1,782	2,316
2021	3	24,195	3,493	4,046	8,379	7,712	1,459	2,393	2,916	31,907	4,952	6,439	11,295
2021	4	3,968	257	369	940	5,246	602	1,796	1,825	9,214	859	2,165	2,765
2021	5	3,352	870	564	272	2,864	442	1,131	858	6,216	1,312	1,695	1,130
2021	6	426	57	0	45	848	91	285	387	1,274	148	285	432
2021	7	1,851	0	290	571	10,180	1,442	7,194	9,415	12,031	1,442	7,484	9,986

Table 10. Steelhead sport harvest, effort, and released fish estimates by Spawn Year (SY) and location code in the Salmon River drainage. The fall season was in the calendar year prior to the Spawn Year and the spring season was in the same calendar year as the Spawn Year. Effort is the number of days fished for steelhead.

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
1987	10	12,731	2,150	375	3,090	2,604	438	447	550	15,335	2,588	822	3,640
1987	11	10,184	1,311	202	1,288	1,943	326	9	241	12,127	1,637	211	1,529
1987	12	6,008	943	43	634	3,825	593	129	636	9,833	1,536	172	1,270
1987	13	3,491	564	99	811	1,375	34	9	155	4,866	598	108	966
1987	14	8,951	2,387	608	2,073	3,825	928	370	1,014	12,776	3,315	978	3,087
1987	15	28,094	6,576	1,595	4,137	12,447	2,915	765	1,779	40,541	9,491	2,360	5,916
1987	16	9,361	1,470	349	918	6,971	697	395	464	16,332	2,167	744	1,382
1987	17	3,590	444	353	612	11,656	2,217	1,479	774	15,246	2,661	1,832	1,386
1987	18	923	64	47	43	5,063	550	628	335	5,986	614	675	378
1987	19	1,203	60	78	228	8,141	1,513	1,084	1,075	9,344	1,573	1,162	1,303
1987	20	0	0	0	0	2,828	876	370	172	2,828	876	370	172
1987	22 ^a	17	0	0	0	0	0	0	0	17	0	0	0
1988	10	7,475	591	79	1,615	1,018	91	58	141	8,493	682	137	1,756
1988	11	7,210	821	424	1,553	2,981	215	41	397	10,191	1,036	465	1,950
1988	12	3,892	529	71	556	1,971	166	17	257	5,863	695	88	813
1988	13	3,689	300	18	1,077	389	67	25	248	4,078	367	43	1,325
1988	14	5,154	512	88	1,730	3,163	150	174	1,010	8,317	662	262	2,740
1988	15	12,063	1,085	97	2,303	8,239	937	348	1,780	20,302	2,022	445	4,083
1988	16	4,677	247	97	477	2,741	232	108	522	7,418	479	205	999
1988	17	1,500	71	18	88	3,171	256	116	522	4,671	327	134	610
1988	18	635	44	18	0	1,466	82	141	306	2,101	126	159	306
1988	19	971	9	0	18	2,252	141	877	1,234	3,223	150	877	1,252
1988	20	0	0	0	0	2,062	439	116	124	2,062	439	116	124

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
1998	21 ^a	0	0	0	0	85	0	0	0	85	0	0	0
1989	10	5,107	508	244	744	1,644	290	41	186	6,751	798	285	930
1989	11	5,768	543	998	1,560	2,493	145	248	518	8,261	688	1,246	2,078
1989	12	3,891	443	354	1,125	1,293	113	41	166	5,184	556	395	1,291
1989	13	1,442	153	91	290	776	21	124	166	2,218	174	215	456
1989	14	4,218	879	353	1,769	2,049	320	207	942	6,267	1,199	560	2,711
1989	15	14,340	2,268	1,152	2,757	6,776	775	1,169	1,645	21,116	3,043	2,321	4,402
1989	16	2,603	281	218	517	5,524	342	93	600	8,127	623	311	1,117
1989	17	1,233	45	27	127	6,496	765	248	703	7,729	810	275	830
1989	18	463	0	0	0	3,652	320	321	693	4,115	320	321	693
1989	19	372	27	63	27	3,724	485	238	517	4,096	512	301	544
1989	20	372	27	9	9	952	197	52	134	1,324	224	61	143
1990	10	6,663	1,232	1,048	1,694	1,670	320	200	320	8,333	1,552	1,248	2,014
1990	11	10,061	1,231	647	1,663	1,877	280	359	631	11,938	1,511	1,006	2,294
1990	12	1,766	277	205	319	1,454	200	64	64	3,220	477	269	383
1990	13	1,684	288	144	288	823	216	224	463	2,507	504	368	751
1990	14	9,311	1,499	1,006	2,967	2,763	432	711	1,087	12,074	1,931	1,717	4,054
1990	15	16,056	2,948	1,027	3,295	10,527	1,886	1,509	2,715	26,583	4,834	2,536	6,010
1990	16	4,117	451	380	811	6,829	815	855	1,254	10,946	1,266	1,235	2,065
1990	17	2,248	184	144	195	5,096	432	487	415	7,344	616	631	610
1990	18	493	21	0	41	2,796	248	623	543	3,289	269	623	584
1990	19	1,119	62	318	113	3,418	368	1,119	799	4,537	430	1,437	912
1990	20	441	82	21	31	3,730	1,638	1,438	1,142	4,171	1,720	1,459	1,173
1991	10	2,879	744	589	653	1,507	107	19	195	4,386	851	608	848
1991	11	4,057	83	239	810	1,585	175	165	340	5,642	258	404	1,150
1991	12	1,076	73	92	193	1,031	117	185	204	2,107	190	277	397
1991	13	1,536	423	396	304	778	88	146	195	2,314	511	542	499

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
1991	14	6,145	405	478	1,463	1,780	204	457	788	7,925	609	935	2,251
1991	15	8,564	148	506	800	5,476	768	1,517	1,780	14,040	916	2,023	2,580
1991	16	3,422	73	138	304	2,402	165	136	301	5,824	238	274	605
1991	17	1,766	37	28	101	1,887	136	204	126	3,653	173	232	227
1991	18	929	9	64	83	1,770	146	156	156	2,699	155	220	239
1991	19	1,104	0	202	294	2,441	311	1,021	778	3,545	311	1,223	1,072
1991	20	276	27	28	18	798	146	263	107	1,074	173	291	125
1992	10	7,101	1,186	833	1,685	1,227	271	99	214	8,328	1,457	932	1,899
1992	11	7,545	1,259	1,159	1,821	3,343	486	436	494	10,888	1,745	1,595	2,315
1992	12	2,192	453	299	389	1,614	206	305	502	3,806	659	604	891
1992	13	1,123	162	299	435	618	98	140	288	1,741	260	439	723
1992	14	5,869	923	743	2,355	2,207	272	263	1,021	8,076	1,195	1,006	3,376
1992	15	12,056	2,011	1,821	1,938	10,054	1,895	2,891	1,820	22,110	3,906	4,712	3,758
1992	16	1,875	271	217	317	2,149	181	165	148	4,024	452	382	465
1992	17	996	136	82	163	4,134	576	741	486	5,130	712	823	649
1992	18	217	18	9	0	3,351	617	1,416	453	3,568	635	1,425	453
1992	19	299	27	0	0	4,833	543	1,219	692	5,132	570	1,219	692
1992	20	290	63	18	27	3,203	856	766	387	3,493	919	784	414
1993	10	7,013	1,488	974	1,514	2,127	580	318	262	9,140	2,068	1,292	1,776
1993	11	8,350	1,151	885	983	4,572	795	409	1,183	12,922	1,946	1,294	2,166
1993	12	2,975	797	460	629	1,877	432	262	364	4,852	1,229	722	993
1993	13	1,266	319	115	239	512	102	114	205	1,778	421	229	444
1993	14	6,234	1,665	974	2,214	1,547	261	364	262	7,781	1,926	1,338	2,476
1993	15	15,833	4,232	3,180	2,630	8,246	1,445	1,092	1,206	24,079	5,677	4,272	3,836
1993	16	3,701	682	381	336	2,991	295	489	205	6,692	977	870	541
1993	17	1,195	212	177	53	4,549	1,023	807	273	5,744	1,235	984	326
1993	18	1,426	62	142	71	4,617	797	1,535	432	6,043	859	1,677	503
1993	19	1,107	98	248	89	3,890	1,172	1,240	591	4,997	1,270	1,488	680

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
1993	20	1,054	142	133	177	2,991	1,081	2,400	762	4,045	1,223	2,533	939
1994	10	5,829	1,215	484	902	2,428	500	597	421	8,257	1,715	1,081	1,323
1994	11	7,162	1,033	967	758	5,092	733	588	529	12,254	1,766	1,555	1,287
1994	12	2,784	483	78	170	2,272	294	460	362	5,056	777	538	532
1994	13	2,444	131	366	209	578	49	59	0	3,022	180	425	209
1994	14	6,221	575	614	1,006	2,301	440	441	470	8,522	1,015	1,055	1,476
1994	15	12,415	1,229	849	758	8,068	1,352	1,870	862	20,483	2,581	2,719	1,620
1994	16	3,908	274	118	209	3,192	402	284	284	7,100	676	402	493
1994	17	2,196	104	170	222	6,110	735	548	362	8,306	839	718	584
1994	18	418	52	52	91	3,975	264	313	382	4,393	316	365	473
1994	19	562	0	26	26	2,497	225	431	196	3,059	225	457	222
1994	20	1,607	157	118	26	4,397	735	1,116	304	6,004	892	1,234	330
1995	10	4,968	1,019	787	787	1,653	364	273	212	6,621	1,383	1,060	999
1995	11	5,784	1,165	1,166	685	6,519	924	1,274	894	12,303	2,089	2,440	1,579
1995	12	2,448	408	306	204	1,501	332	682	121	3,949	740	988	325
1995	13	1,078	160	189	335	1,471	90	106	273	2,549	250	295	608
1995	14	6,600	423	728	889	2,320	379	227	622	8,920	802	955	1,511
1995	15	8,465	613	889	772	7,974	1,807	2,776	1,151	16,439	2,420	3,665	1,923
1995	16	1,559	44	73	29	3,230	91	121	61	4,789	135	194	90
1995	17	2,681	335	699	117	4,382	561	864	76	7,063	896	1,563	193
1995	18	641	0	102	29	4,579	652	1,365	546	5,220	652	1,467	575
1995	19	758	15	262	15	1,183	45	364	106	1,941	60	626	121
1995	20	2,098	234	685	131	5,988	1,775	1,804	349	8,086	2,009	2,489	480
1996	10	5,475	1,171	1,102	769	1,527	283	263	293	7,002	1,454	1,365	1,062
1996	11	8,275	1,195	1,389	735	4,833	900	576	465	13,108	2,095	1,965	1,200
1996	12	3,386	666	815	390	1,608	434	1,153	283	4,994	1,100	1,968	673
1996	13	1,354	195	80	80	475	51	10	81	1,829	246	90	161
1996	14	4,568	688	643	666	1,223	122	142	243	5,791	810	785	909

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
1996	15	12,062	2,136	1,331	987	6,186	1,700	2,721	688	18,248	3,836	4,052	1,675
1996	16	3,868	367	298	333	3,862	759	1,304	233	7,730	1,126	1,602	566
1996	17	2,089	114	69	126	5,641	1,486	1,749	222	7,730	1,600	1,818	348
1996	18	838	34	230	23	3,407	444	1,132	131	4,245	478	1,362	154
1996	19	976	11	298	57	2,073	415	536	51	3,049	426	834	108
1996	20	1,802	195	195	161	4,914	1,558	2,052	243	6,716	1,753	2,247	404
1997	10	4,286	1,073	1,326	663	2,158	330	120	90	6,444	1,403	1,446	753
1997	11	8,010	1,633	1,760	867	3,882	1,064	285	629	11,892	2,697	2,045	1,496
1997	12	5,433	1,327	1,352	816	2,818	435	360	495	8,251	1,762	1,712	1,311
1997	13	1,250	459	485	765	210	90	30	0	1,460	549	515	765
1997	14	7,806	2,242	3,953	3,009	2,009	330	1,364	509	9,815	2,572	5,317	3,518
1997	15	11,811	1,937	2,398	969	6,026	1,962	2,218	1,228	17,837	3,899	4,616	2,197
1997	16	2,857	511	281	26	3,927	585	1,139	375	6,784	1,096	1,420	401
1997	17	2,015	154	281	77	6,580	1,797	3,072	510	8,595	1,951	3,353	587
1997	18	689	0	0	0	3,537	765	1,874	120	4,226	765	1,874	120
1997	19	638	26	51	26	3,477	854	2,368	255	4,115	880	2,419	281
1997	20	867	78	102	153	4,437	930	974	180	5,304	1,008	1,076	333
1998	10	11,303	3,396	2,134	1,999	2,437	388	320	280	13,740	3,784	2,454	2,279
1998	11	10,770	2,319	678	1,047	6,024	1,219	701	502	16,794	3,538	1,379	1,549
1998	12	3,274	726	532	397	2,608	593	1,073	417	5,882	1,319	1,605	814
1998	13	1,346	122	0	106	729	188	171	150	2,075	310	171	256
1998	14	6,289	940	323	739	3,105	657	1,076	603	9,394	1,597	1,399	1,342
1998	15	17,074	2,666	1,895	786	11,324	2,349	3,329	875	28,398	5,015	5,224	1,661
1998	16	2,641	469	231	266	5,219	902	1,644	243	7,860	1,371	1,875	509
1998	17	1,653	246	442	18	5,852	1,210	1,340	207	7,505	1,456	1,782	225
1998	18	1,972	18	177	18	3,765	779	2,169	308	5,737	797	2,346	326
1998	19	1,063	64	210	274	3,327	681	1,924	255	4,390	745	2,134	529
1998	20	1,320	496	160	71	5,084	1,402	1,266	607	6,404	1,898	1,426	678

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
1998	21 ^a	35	0	0	0	0	0	0	0	35	0	0	0
1999	10	3,755	1,251	401	447	1,599	364	182	261	5,354	1,615	583	708
1999	11	8,096	1,143	376	729	5,521	642	537	348	13,617	1,785	913	1,077
1999	12	3,038	543	387	258	2,375	309	553	310	5,413	852	940	568
1999	13	1,392	141	49	163	1,161	295	98	98	2,553	436	147	261
1999	14	5,505	1,213	816	1,096	2,501	502	405	699	8,006	1,715	1,221	1,795
1999	15	7,343	1,282	1,279	355	9,410	1,914	3,831	810	16,753	3,196	5,110	1,165
1999	16	1,586	97	147	97	3,707	548	709	171	5,293	645	856	268
1999	17	601	0	16	33	5,415	815	1,289	293	6,016	815	1,305	326
1999	18	564	16	294	147	3,615	442	1,708	132	4,179	458	2,002	279
1999	19	637	0	163	0	2,752	436	718	97	3,389	436	881	97
1999	20	588	16	113	16	5,584	1,157	1,107	344	6,172	1,173	1,220	360
2000	10	6,688	1,480	526	745	2,132	289	340	149	8,820	1,769	866	894
2000	11	9,177	1,111	799	885	5,511	256	508	625	14,688	1,367	1,307	1,510
2000	12	6,649	811	700	622	2,648	95	195	250	9,297	906	895	872
2000	13	1,959	389	268	215	824	53	28	64	2,783	442	296	279
2000	14	4,853	1,416	598	801	1,917	138	428	463	6,770	1,554	1,026	1,264
2000	15	15,859	3,776	4,226	1,310	6,836	1,664	2,354	686	22,695	5,440	6,580	1,996
2000	16	4,388	670	688	139	7,397	1,338	1,743	373	11,785	2,008	2,431	512
2000	17	1,695	139	469	16	5,219	997	1,300	221	6,914	1,136	1,769	237
2000	18	866	0	225	0	4,738	837	1,695	125	5,604	837	1,920	125
2000	19	806	0	316	16	3,538	674	2,506	248	4,344	674	2,822	264
2000	20	1,906	206	610	78	3,927	574	693	306	5,833	780	1,303	384
2001	10	5,592	661	488	720	1,231	233	92	94	6,823	894	580	814
2001	11	10,834	1,400	1,844	868	6,103	1,024	1,249	803	16,937	2,424	3,093	1,671
2001	12	5,341	1,229	535	574	2,214	358	183	180	7,555	1,587	718	754
2001	13	1,386	338	78	247	916	116	100	201	2,302	454	178	448
2001	14	4,788	935	1,044	1,238	2,582	374	531	1,149	7,370	1,309	1,575	2,387

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2001	15	10,333	2,510	2,919	1,406	8,588	1,612	3,236	1,024	18,921	4,122	6,155	2,430
2001	16	2,853	443	394	90	6,888	990	3,321	530	9,741	1,433	3,715	620
2001	17	1,274	91	181	39	8,165	1,350	2,554	417	9,439	1,441	2,735	456
2001	18	996	43	52	13	5,752	1,239	4,139	425	6,748	1,282	4,191	438
2001	19	676	0	166	26	3,914	756	4,010	758	4,590	756	4,176	784
2001	20	1,708	561	78	52	4,958	1,925	2,078	523	6,666	2,486	2,156	575
2001	21 ^a	126	0	0	0	22	0	0	0	148	0	0	0
2002	10	6,457	2,023	467	1,638	4,042	1,668	730	906	10,499	3,691	1,197	2,544
2002	11	14,236	3,710	2,456	3,309	11,178	3,880	2,666	2,869	25,414	7,590	5,122	6,178
2002	12	6,634	2,079	2,244	1,473	4,481	1,631	2,154	1,297	11,115	3,710	4,398	2,770
2002	13	2,644	1,023	606	603	905	238	227	316	3,549	1,261	833	919
2002	14	7,020	2,737	2,531	3,246	4,704	2,262	2,828	1,882	11,724	4,999	5,359	5,128
2002	15	24,467	10,438	11,853	6,000	13,352	5,084	8,297	3,999	37,819	15,522	20,150	9,999
2002	16	6,968	1,485	2,571	870	9,078	2,385	2,177	1,278	16,046	3,870	4,748	2,148
2002	17	2,723	590	473	545	9,439	3,723	3,812	826	12,162	4,313	4,285	1,371
2002	18	692	14	230	301	9,526	3,330	4,781	1,676	10,218	3,344	5,011	1,977
2002	19	648	112	14	14	8,609	4,501	7,755	2,065	9,257	4,613	7,769	2,079
2002	20	3,652	877	916	939	11,266	7,281	11,327	9,494	14,918	8,158	12,243	10,433
2003	10	8,653	2,867	1,183	3,278	1,615	337	352	343	10,268	3,204	1,535	3,621
2003	11	17,468	4,271	3,035	6,696	10,977	3,392	4,627	6,321	28,445	7,663	7,662	13,017
2003	12	8,671	2,717	1,289	2,445	4,272	1,337	1,644	1,891	12,943	4,054	2,933	4,336
2003	13	2,190	816	649	1,631	1,220	180	236	520	3,410	996	885	2,151
2003	14	6,786	1,619	2,011	2,827	3,632	1,187	2,195	1,800	10,418	2,806	4,206	4,627
2003	15	22,473	5,468	7,310	4,751	10,627	3,128	3,079	2,406	33,100	8,596	10,389	7,157
2003	16	5,831	649	872	753	6,760	1,058	2,019	648	12,591	1,707	2,891	1,401
2003	17	2,588	130	441	324	11,394	4,039	4,115	1,060	13,982	4,169	4,556	1,384
2003	18	1,933	133	794	163	8,033	1,493	3,979	1,718	9,966	1,626	4,773	1,881
2003	19	1,787	196	469	640	8,310	1,739	3,133	2,042	10,097	1,935	3,602	2,682

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2003	20	4,296	907	1,252	1,630	13,499	5,038	8,004	12,899	17,795	5,945	9,256	14,529
2004	10	6,529	1,988	1,305	3,198	1,488	321	157	409	8,017	2,309	1,462	3,607
2004	11	14,414	2,875	1,808	4,387	5,996	1,594	1,322	2,931	20,410	4,469	3,130	7,318
2004	12	6,603	1,210	1,271	2,089	5,145	1,161	1,187	3,122	11,748	2,371	2,458	5,211
2004	13	2,997	740	661	2,033	1,096	203	357	443	4,093	943	1,018	2,476
2004	14	6,349	1,774	1,022	2,981	1,930	285	411	738	8,279	2,059	1,433	3,719
2004	15	17,402	5,459	4,269	3,602	9,482	3,222	4,199	2,233	26,884	8,681	8,468	5,835
2004	16	4,789	1,200	1,406	800	6,650	1,799	2,521	1,946	11,439	2,999	3,927	2,746
2004	17	1,910	326	511	510	7,590	2,496	2,965	998	9,500	2,822	3,476	1,508
2004	18	3,417	207	1,491	547	6,977	1,002	3,741	1,115	10,394	1,209	5,232	1,662
2004	19	906	33	166	200	7,768	1,824	4,583	2,696	8,674	1,857	4,749	2,896
2004	20	4,077	289	1,300	1,418	8,551	2,628	3,960	15,807	12,628	2,917	5,260	17,225
2005	10	4,982	1,326	481	2,042	2,720	639	91	673	7,702	1,965	572	2,715
2005	11	10,522	1,865	1,183	2,209	6,179	1,495	2,195	2,457	16,701	3,360	3,378	4,666
2005	12	9,157	2,350	1,518	2,946	4,484	1,090	1,710	2,544	13,641	3,440	3,228	5,490
2005	13	2,542	872	401	1,492	1,228	163	970	559	3,770	1,035	1,371	2,051
2005	14	6,903	1,612	1,280	2,748	2,373	651	783	1,138	9,276	2,263	2,063	3,886
2005	15	18,073	5,510	4,794	4,373	11,460	3,439	3,156	2,074	29,533	8,949	7,950	6,447
2005	16	5,652	1,096	1,083	1,242	5,714	1,390	1,075	1,046	11,366	2,486	2,158	2,288
2005	17	3,540	696	293	195	7,456	1,674	1,389	903	10,996	2,370	1,682	1,098
2005	18	734	0	238	89	5,299	712	1,437	1,085	6,033	712	1,675	1,174
2005	19	1,185	286	534	130	7,494	1,562	3,239	2,015	8,679	1,848	3,773	2,145
2005	20	3,595	832	1,055	1,215	6,862	1,867	2,799	7,928	10,457	2,699	3,854	9,143
2006	10	5,158	1,485	1,838	2,582	2,334	409	91	834	7,492	1,894	1,929	3,416
2006	11	10,501	1,428	1,506	2,395	5,512	1,138	1,163	1,666	16,013	2,566	2,669	4,061
2006	12	6,585	950	505	1,547	2,423	342	306	819	9,008	1,292	811	2,366
2006	13	3,008	790	651	1,226	716	327	199	299	3,724	1,117	850	1,525
2006	14	6,721	1,873	2,031	3,027	2,903	853	1,162	1,864	9,624	2,726	3,193	4,891

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2006	15	18,317	3,960	6,362	4,693	11,089	4,365	5,695	4,029	29,406	8,325	12,057	8,722
2006	16	4,798	988	840	986	5,189	913	1,230	1,036	9,987	1,901	2,070	2,022
2006	17	2,706	242	490	420	6,460	1,966	2,026	1,339	9,166	2,208	2,516	1,759
2006	18	911	89	377	150	3,714	1,002	2,794	901	4,625	1,091	3,171	1,051
2006	19	636	0	178	153	5,151	1,609	5,214	1,904	5,787	1,609	5,392	2,057
2006	20	1,913	316	365	782	6,606	1,977	5,165	7,632	8,519	2,293	5,530	8,414
2007	10	3,758	749	621	1,013	1,768	286	119	332	5,526	1,035	740	1,345
2007	11	9,030	1,392	1,119	1,842	4,708	1,236	772	1,290	13,738	2,628	1,891	3,132
2007	12	5,047	1,435	784	1,671	1,843	414	139	345	6,890	1,849	923	2,016
2007	13	1,707	290	132	288	984	190	177	353	2,691	480	309	641
2007	14	6,595	1,741	1,272	1,996	2,000	637	712	766	8,595	2,378	1,984	2,762
2007	15	17,877	3,735	3,303	2,956	6,583	1,846	4,722	1,278	24,460	5,581	8,025	4,234
2007	16	5,305	1,313	809	625	3,814	893	1,459	644	9,119	2,206	2,268	1,269
2007	17	1,845	313	103	213	7,465	2,245	3,066	1,366	9,310	2,558	3,169	1,579
2007	18	925	13	238	26	3,262	540	1,841	267	4,187	553	2,079	293
2007	19	825	79	687	383	8,135	3,217	7,084	3,017	8,960	3,296	7,771	3,400
2007	20	2,727	352	1,502	1,365	5,697	1,779	2,877	10,067	8,424	2,131	4,379	11,432
2008	10	5,398	1,745	605	1,275	1,280	166	26	176	6,678	1,911	631	1,451
2008	11	11,140	2,026	1,326	3,331	6,131	905	702	1,347	17,271	2,931	2,028	4,678
2008	12	6,128	958	828	962	3,242	544	430	647	9,370	1,502	1,258	1,609
2008	13	2,755	467	437	376	849	336	203	649	3,604	803	640	1,025
2008	14	5,876	1,512	1,337	1,922	2,234	724	2,976	1,385	8,110	2,236	4,313	3,307
2008	15	19,117	6,262	6,013	4,778	9,841	4,565	9,414	5,170	28,958	10,827	15,427	9,948
2008	16	4,716	1,061	631	608	5,311	1,342	705	760	10,027	2,403	1,336	1,368
2008	17	2,504	316	430	268	9,689	2,938	3,728	1,324	12,193	3,254	4,158	1,592
2008	18	943	0	421	40	6,782	1,178	4,452	1,623	7,725	1,178	4,873	1,663
2008	19	1,332	42	1,767	70	7,575	2,614	10,846	4,508	8,907	2,656	12,613	4,578
2008	20	1,918	84	379	252	5,456	909	1,635	2,478	7,374	993	2,014	2,730

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2009	10	5,617	1,082	1,195	1,959	2,468	342	354	482	8,085	1,424	1,549	2,441
2009	11	11,140	2,386	1,343	3,352	6,654	928	3,210	2,333	17,794	3,314	4,553	5,685
2009	12	8,063	1,521	587	1,688	2,941	912	386	1,351	11,004	2,433	973	3,039
2009	13	2,668	676	814	1,039	1,203	204	106	975	3,871	880	920	2,014
2009	14	9,540	1,156	933	2,351	2,610	687	995	1,006	12,150	1,843	1,928	3,357
2009	15	15,430	3,694	2,989	2,887	10,722	2,687	4,861	2,540	26,152	6,381	7,850	5,427
2009	16	6,617	1,405	958	1,078	5,771	1,201	2,239	1,241	12,388	2,606	3,197	2,319
2009	17	3,250	665	546	403	12,467	3,026	6,190	2,848	15,717	3,691	6,736	3,251
2009	18	1,248	59	59	30	5,172	1,434	3,794	1,487	6,420	1,493	3,853	1,517
2009	19	899	0	576	333	7,083	2,646	7,982	6,719	7,982	2,646	8,558	7,052
2009	20	2,869	395	994	773	5,828	1,461	3,169	6,308	8,697	1,856	4,163	7,081
2010	10	6,883	3,154	2,042	4,404	3,304	1,070	968	2,272	10,187	4,224	3,010	6,676
2010	11	13,403	4,798	1,975	6,716	10,457	3,762	3,151	9,692	23,860	8,560	5,126	16,408
2010	12	6,684	3,136	2,071	3,817	4,927	1,930	1,622	4,315	11,611	5,066	3,693	8,132
2010	13	2,532	1,206	2,596	4,847	1,820	938	867	1,696	4,352	2,144	3,463	6,543
2010	14	7,857	3,263	4,435	4,616	6,108	2,880	3,815	4,632	13,965	6,143	8,250	9,248
2010	15	22,400	10,962	9,969	9,493	21,267	14,531	28,774	11,984	43,667	25,493	38,743	21,477
2010	16	9,790	2,677	2,458	2,278	11,274	3,596	5,204	4,509	21,064	6,273	7,662	6,787
2010	17	5,384	1,365	1,087	1,121	14,495	8,931	8,499	4,840	19,879	10,296	9,586	5,961
2010	18	929	58	229	129	8,645	3,358	5,624	2,762	9,574	3,416	5,853	2,891
2010	19	1,366	0	485	562	13,088	6,590	13,900	13,583	14,454	6,590	14,385	14,145
2010	20	2,355	610	682	1,050	9,632	3,229	5,029	19,922	11,987	3,839	5,711	20,972
2011	10	6,266	1,315	740	2,736	1,989	579	790	905	8,255	1,894	1,530	3,641
2011	11	13,518	2,158	3,873	4,557	4,835	1,042	1,936	2,276	18,353	3,200	5,809	6,833
2011	12	8,185	1,990	2,143	2,216	3,522	1,097	698	1,085	11,707	3,087	2,841	3,301
2011	13	3,803	668	564	1,902	1,489	240	894	969	5,292	908	1,458	2,871
2011	14	9,283	2,016	1,890	5,863	3,767	1,194	1,064	2,319	13,050	3,210	2,954	8,182
2011	15	22,254	5,685	7,731	7,780	9,737	3,447	6,812	6,136	31,991	9,132	14,543	13,916

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2011	16	7,745	2,037	2,259	2,617	6,647	1,338	3,440	2,271	14,392	3,375	5,699	4,888
2011	17	5,215	924	1,418	1,495	10,903	2,715	4,568	3,086	16,118	3,639	5,986	4,581
2011	18	1,359	174	822	300	8,000	1,088	4,933	3,344	9,359	1,262	5,755	3,644
2011	19	3,079	0	3,809	3,093	11,012	2,960	8,718	11,873	14,091	2,960	12,527	14,966
2011	20	5,487	388	4,149	3,908	6,991	1,947	4,099	7,224	12,478	2,335	8,248	11,132
2012	10	5,806	2,086	906	3,305	1,746	446	568	887	7,552	2,532	1,474	4,192
2012	11	9,403	1,824	1,358	2,440	4,291	1,438	1,956	1,910	13,694	3,262	3,314	4,350
2012	12	5,794	2,372	1,153	2,108	2,630	830	1,134	1,101	8,424	3,202	2,287	3,209
2012	13	1,402	203	320	402	1,472	382	598	842	2,874	585	918	1,244
2012	14	6,177	1,450	802	4,212	2,508	1,296	1,312	2,816	8,685	2,746	2,114	7,028
2012	15	15,897	4,130	3,667	4,714	9,341	3,614	5,457	5,123	25,238	7,744	9,124	9,837
2012	16	8,162	1,263	855	1,557	4,317	783	868	1,028	12,479	2,046	1,723	2,585
2012	17	4,727	578	1,517	1,112	7,234	1,963	2,460	1,827	11,961	2,541	3,977	2,939
2012	18	1,665	68	2,408	511	4,948	807	2,342	1,455	6,613	875	4,750	1,966
2012	19	1,865	48	721	950	7,555	2,651	4,434	4,866	9,420	2,699	5,155	5,816
2012	20	4,513	862	2,977	2,504	5,399	2,751	4,995	3,427	9,912	3,613	7,972	5,931
2013	10	4,855	1,082	782	1,332	1,148	347	194	789	6,003	1,429	976	2,121
2013	11	11,312	2,037	1,758	2,532	3,209	873	340	930	14,521	2,910	2,098	3,462
2013	12	7,299	1,835	1,261	1,580	1,769	457	181	437	9,068	2,292	1,442	2,017
2013	13	3,468	892	404	1,842	1,319	324	267	673	4,787	1,216	671	2,515
2013	14	4,230	674	291	1,397	3,740	694	692	1,806	7,970	1,368	983	3,203
2013	15	11,886	2,692	1,924	3,245	7,936	1,490	2,277	2,244	19,822	4,182	4,201	5,489
2013	16	6,268	1,001	1,333	1,626	5,239	998	958	1,338	11,507	1,999	2,291	2,964
2013	17	3,228	249	432	757	5,119	928	1,130	1,105	8,347	1,177	1,562	1,862
2013	18	1,174	0	307	207	4,232	398	1,794	824	5,406	398	2,101	1,031
2013	19	2,047	123	926	713	6,864	1,767	3,826	3,002	8,911	1,890	4,752	3,715
2013	20	2,429	443	477	407	4,777	1,621	1,238	1,082	7,206	2,064	1,715	1,489
2014	10	4,531	1,580	344	2,598	1,178	122	178	529	5,709	1,702	522	3,127

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2014	11	13,638	3,042	1,693	3,360	3,818	723	600	995	17,456	3,765	2,293	4,355
2014	12	9,612	3,142	2,208	3,422	1,384	520	171	470	10,996	3,662	2,379	3,892
2014	13	3,454	597	291	1,369	1,109	233	128	253	4,563	830	419	1,622
2014	14	9,503	1,408	1,248	2,668	1,958	162	174	784	11,461	1,570	1,422	3,452
2014	15	24,891	4,935	4,571	6,942	6,335	1,843	1,546	1,783	31,226	6,778	6,117	8,725
2014	16	11,699	943	929	1,206	5,362	677	1,095	800	17,061	1,620	2,024	2,006
2014	17	4,589	259	726	514	6,444	959	1,861	1,378	11,033	1,218	2,587	1,892
2014	18	2,026	11	167	96	6,113	991	2,047	1,637	8,139	1,002	2,214	1,733
2014	19	1,542	112	642	565	7,407	1,774	4,184	1,845	8,949	1,886	4,826	2,410
2014	20	2,388	382	330	329	3,847	1,461	1,720	1,156	6,235	1,843	2,050	1,485
2015	10	3,574	938	451	1,753	1,628	397	162	1,230	5,202	1,335	613	2,983
2015	11	8,210	1,650	930	2,536	3,551	927	2,235	1,560	11,761	2,577	3,165	4,096
2015	12	6,150	1,905	892	2,149	1,740	480	365	402	7,890	2,385	1,257	2,551
2015	13	1,965	427	300	1,070	1,136	72	94	1,364	3,101	499	394	2,434
2015	14	4,414	670	381	2,847	2,413	386	541	1,679	6,827	1,056	922	4,526
2015	15	12,760	2,939	2,552	5,146	7,686	1,997	2,165	2,962	20,446	4,936	4,717	8,108
2015	16	6,431	985	1,534	2,379	3,966	731	1,119	1,281	10,397	1,716	2,653	3,660
2015	17	4,372	857	1,127	841	5,711	572	536	1,267	10,083	1,429	1,663	2,108
2015	18	1,244	122	274	239	4,239	477	1,077	971	5,483	599	1,351	1,210
2015	19	1,918	151	690	554	5,911	1,006	2,420	1,065	7,829	1,157	3,110	1,619
2015	20	2,164	438	549	516	5,388	2,852	4,211	4,444	7,552	3,290	4,760	4,960
2016	10	2,269	243	212	871	692	175	105	186	2,961	418	317	1,057
2016	11	7,857	1,582	1,523	3,637	3,681	871	785	862	11,538	2,453	2,308	4,499
2016	12	4,955	951	685	1,599	2,072	523	406	504	7,027	1,474	1,091	2,103
2016	13	1,740	172	773	990	566	211	160	469	2,306	383	933	1,459
2016	14	4,608	420	310	2,258	1,640	325	522	1,097	6,248	745	832	3,355
2016	15	12,744	2,979	2,793	3,384	7,048	2,355	2,074	2,930	19,792	5,334	4,867	6,314
2016	16	5,388	957	1,127	1,025	2,852	776	825	948	8,240	1,733	1,952	1,973

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2016	17	3,073	392	598	561	6,751	2,159	1,882	1,430	9,824	2,551	2,480	1,991
2016	18	1,128	60	361	355	4,713	1,335	1,423	1,186	5,841	1,395	1,784	1,541
2016	19	1,365	51	466	404	6,781	1,538	4,740	2,285	8,146	1,589	5,206	2,689
2016	20	2,447	551	396	781	4,238	2,133	5,485	1,513	6,685	2,684	5,881	2,294
2017	10	2,199	235	205	850	674	95	129	203	2,873	330	334	1,053
2017	11	7,651	1,544	1,496	3,611	2,093	393	283	373	9,744	1,937	1,779	3,984
2017	12	4,800	919	672	1,557	779	82	181	128	5,579	1,001	853	1,685
2017	13	1,684	166	744	954	520	21	26	529	2,204	187	770	1,483
2017	14	4,465	406	302	2,202	1,055	13	42	177	5,520	419	344	2,379
2017	15	12,321	2,881	2,697	3,263	2,186	143	334	335	14,507	3,024	3,031	3,598
2017	16	5,195	922	1,082	988	881	128	101	191	6,076	1,050	1,183	1,179
2017	17	2,986	380	581	543	2,078	212	209	231	5,064	592	790	774
2017	18	1,090	58	348	345	1,426	70	113	147	2,516	128	461	492
2017	19	1,316	49	448	391	4,134	1,113	3,000	666	5,450	1,162	3,448	1,057
2017	20	2,366	531	384	755	2,577	673	1,249	709	4,943	1,204	1,633	1,464
2018	10	2,309	620	575	755	655	155	188	191	2,964	775	763	946
2018	11	4,243	970	725	829	2,618	446	227	413	6,861	1,416	952	1,242
2018	12	2,429	677	361	330	1,386	209	291	295	3,815	886	652	625
2018	13	1,620	188	204	352	582	71	129	118	2,202	259	333	470
2018	14	3,345	224	684	815	1,098	207	536	294	4,443	431	1,220	1,109
2018	15	7,186	1,113	2,502	1,196	3,747	831	1,253	538	10,933	1,944	3,755	1,734
2018	16	2,969	250	211	198	2,611	262	609	211	5,580	512	820	409
2018	17	2,642	124	187	107	4,626	797	1,027	522	7,268	921	1,214	629
2018	18	329	0	0	0	2,407	225	426	112	2,736	225	426	112
2018	19	1,841	36	794	306	4,486	1,422	3,202	713	6,327	1,458	3,996	1,019
2018	20	1,350	230	395	85	2,526	452	930	384	3,876	682	1,325	469
2019	10	2,305	389	239	616	494	86	89	222	2,799	475	328	838
2019	11	4,415	489	679	652	2,733	545	1,218	586	7,148	1,034	1,897	1,238

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2019	12	3,655	415	352	153	1,730	189	499	296	5,385	604	851	449
2019	13	898	40	21	86	326	12	7	61	1,224	52	28	147
2019	14	4,064	213	284	501	80	7	0	13	4,144	220	284	514
2019	15	7,187	378	1,151	738	2,447	150	316	273	9,634	528	1,467	1,011
2019	16	3,748	206	353	224	2,000	34	285	98	5,748	240	638	322
2019	17	1,707	35	121	21	2,504	74	311	61	4,211	109	432	82
2019	18	1,098	21	365	30	1,905	73	298	85	3,003	94	663	115
2019	19	838	62	788	102	3,405	462	2,683	471	4,243	524	3,471	573
2019	20	1,796	185	483	82	1,590	140	740	338	3,386	325	1,223	420
2020	10	1,855	418	370	567	830	125	421	363	2,685	543	791	930
2020	11	4,380	259	510	592	1,747	133	309	227	6,127	392	819	819
2020	12	2,478	179	183	275	1,313	119	214	156	3,791	298	397	431
2020	13	659	80	91	72	318	19	29	35	977	99	120	107
2020	14	2,346	104	57	303	292	6	50	68	2,638	110	107	371
2020	15	4,540	72	361	305	1,846	123	530	282	6,386	195	891	587
2020	16	1,716	28	16	62	775	46	165	54	2,491	74	181	116
2020	17	1,841	8	68	44	1,608	54	250	147	3,449	62	318	191
2020	18	802	0	8	0	681	23	103	70	1,483	23	111	70
2020	19	814	20	381	88	2,177	334	2,002	528	2,991	354	2,383	616
2020	20	845	61	117	70	1,499	159	472	90	2,344	220	589	160
2021	10	4,037	493	393	1,037	1,188	193	858	387	5,225	686	1,251	1,424
2021	11	5,027	416	650	686	2,908	318	398	511	7,935	734	1,048	1,197
2021	12	2,649	225	207	460	1,562	125	278	205	4,211	350	485	665
2021	13	965	67	78	387	693	102	51	250	1,658	169	129	637
2021	14	3,022	44	207	743	1,477	23	57	466	4,499	67	264	1,209
2021	15	8,090	517	514	877	3,927	317	421	466	12,017	834	935	1,343
2021	16	3,658	105	183	296	1,671	119	68	137	5,329	224	251	433
2021	17	1,758	88	33	93	3,478	193	455	193	5,236	281	488	286

Table 10 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released	Effort	Harvest	Clipped released	Unclip released
2021	18	565	11	11	134	1,994	102	523	97	2,559	113	534	231
2021	19	381	11	301	56	5,290	931	10,856	1,324	5,671	942	11,157	1,380
2021	20	2,137	227	138	78	1,165	170	250	68	3,302	397	388	146

^a River was not open to steelhead fishing, however effort was reported in the survey.

Table 11. Steelhead sport harvest, effort, and released fish estimates by Spawn Year (SY) and location code in the Snake River. The fall season was in the calendar year prior to the Spawn Year and the spring season was in the same calendar year as the Spawn Year. Effort is the number of days fished for steelhead.

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released	Effort	Harvest	Clip released	Unclip released
1987	1	17,067	2,560	1,000	6,214	4,195	489	240	1,573	21,262	3,049	1,240	7,787
1987	2	6,055	1,133	82	1,198	1,505	345	9	507	7,560	1,478	91	1,705
1987	27	26	8	0	0	34	9	0	0	60	17	0	0
1988	1	11,225	1,227	124	1,906	3,097	439	273	1,408	14,322	1,666	397	3,314
1988	2	2,815	415	35	565	1,515	157	0	166	4,330	572	35	731
1988	27	0	0	0	0	0	0	0	0	0	0	0	0
1989	1	12,326	1,598	644	2,521	2,958	341	0	383	15,284	1,939	644	2,904
1989	2	4,544	672	408	345	1,448	165	352	393	5,992	837	760	738
1989	27	0	0	0	0	0	0	0	0	0	0	0	0
1990	1	12,905	3,172	976	3,111	2,348	464	240	519	15,253	3,636	1,216	3,630
1990	2	4,260	1,089	616	780	2,452	360	160	599	6,712	1,449	776	1,379
1990	27	103	31	0	0	80	8	0	0	183	39	0	0
1991	1	5,271	754	1,187	1,104	1,303	214	661	340	6,574	968	1,848	1,444
1991	2	4,774	662	1,122	534	457	49	117	195	5,231	711	1,239	729
1991	27	0	0	0	0	117	39	10	10	117	39	10	10
1992	1	15,887	3,316	4,347	3,469	3,944	741	1,062	947	19,831	4,057	5,409	4,416
1992	2	6,241	959	1,703	1,014	2,157	511	667	354	8,398	1,470	2,370	1,368
1992	27	199	54	27	9	189	24	0	16	388	78	27	25
1993	1	17,373	3,355	3,950	3,586	2,218	704	375	1,535	19,591	4,059	4,325	5,121
1993	2	4,038	1,320	1,009	620	1,035	204	171	148	5,073	1,524	1,180	768
1993	27	2,019	629	363	0	682	182	45	45	2,701	811	408	45
1994	1	18,166	2,850	1,634	2,013	4,602	607	1,126	578	22,768	3,457	2,760	2,591
1994	2	4,509	1,267	601	301	2,468	235	431	206	6,977	1,502	1,032	507

Table 11 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clip release d	Unclip release d	Effort	Harvest	Clip release d	Unclip release d	Effort	Harvest	Clip release d	Unclip release d
1994	27	0	0	0	0	264	10	186	235	264	10	186	235
1995	1	12,136	1,457	2,564	2,418	1,941	182	243	152	14,077	1,639	2,807	2,570
1995	2	2,419	219	525	160	682	121	45	15	3,101	340	570	175
1995	27	1,020	161	29	0	425	91	15	0	1,445	252	44	0
1996	1	12,085	2,802	2,892	1,745	809	121	121	91	12,894	2,923	3,013	1,836
1996	2	4,074	1,010	815	344	445	51	20	61	4,519	1,061	835	405
1996	27	1,240	481	138	0	900	80	71	0	2,140	561	209	0
1997	1	10,510	2,523	2,780	1,097	779	0	525	75	11,289	2,523	3,305	1,172
1997	2	4,056	894	332	383	165	30	15	15	4,221	924	347	398
1997	27	1,046	230	434	0	45	0	0	0	1,091	230	434	0
1998	1	16,800	4,840	3,581	2,240	2,641	498	1,010	728	19,441	5,338	4,591	2,968
1998	2	3,115	1,063	479	177	901	213	243	327	4,016	1,276	722	504
1998	27	310	0	35	0	1,191	142	345	121	1,501	142	380	121
1999	1	9,370	1,909	960	1,186	2,449	291	134	234	11,819	2,200	1,094	1,420
1999	2	2,863	810	328	520	304	58	22	37	3,167	868	350	557
1999	27	194	32	16	0	85	11	0	0	279	43	16	0
2000	1	14,890	2,880	2,327	3,048	1,864	95	316	315	16,754	2,975	2,643	3,363
2000	2	4,812	840	1,108	1,057	745	93	65	131	5,557	933	1,173	1,188
2000	27	0	0	0	0	507	39	62	215	507	39	62	215
2001	1	12,850	2,942	3,108	3,772	1,205	240	211	348	14,055	3,182	3,319	4,120
2001	2	3,655	1,184	724	808	1,255	327	149	261	4,910	1,511	873	1,069
2001	27	1,075	339	35	152	249	90	0	0	1,324	429	35	152
2002	1	18,336	6,939	8,011	10,109	3,393	1,040	999	1,434	21,729	7,979	9,010	11,543
2002	2	5,832	4,427	2,012	1,835	3,776	2,328	2,584	884	9,608	6,755	4,596	2,719
2002	27	1,794	1,302	186	430	634	257	149	68	2,428	1,559	335	498
2003	1	14,856	3,625	2,129	5,436	2,913	981	603	1,223	17,769	4,606	2,732	6,659
2003	2	6,040	3,316	1,047	2,092	2,089	713	1,025	2,024	8,129	4,029	2,072	4,116
2003	27	1,086	526	292	280	772	206	193	217	1,858	732	485	497

Table 11 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clip release d	Unclip release d	Effort	Harvest	Clip release d	Unclip release d	Effort	Harvest	Clip release d	Unclip release d
2004	1	9,336	2,544	1,622	4,521	2,046	617	2,236	1,439	11,382	3,161	3,858	5,960
2004	2	4,626	2,990	1,004	2,209	2,491	951	859	1,253	7,117	3,941	1,863	3,462
2004	27	1,403	587	86	312	689	286	403	256	2,092	873	489	568
2005	1	14,405	3,668	2,510	7,070	1,782	478	523	697	16,187	4,146	3,033	7,767
2005	2	8,629	6,895	6,782	4,913	1,496	862	162	953	10,125	7,757	6,944	5,866
2005	27	676	368	86	90	179	61	128	0	855	429	214	90
2006	1	11,154	3,355	3,639	5,068	1,042	207	193	173	12,196	3,562	3,832	5,241
2006	2	6,177	3,594	1,487	2,438	1,258	736	570	451	7,435	4,330	2,057	2,889
2006	27	946	509	250	99	468	152	87	39	1,414	661	337	138
2007	1	7,969	2,362	1,058	3,061	1,450	273	1,106	923	9,419	2,635	2,164	3,984
2007	2	4,601	1,493	956	1,357	801	398	143	224	5,402	1,891	1,099	1,581
2007	27	1,336	375	337	141	302	76	13	68	1,638	451	350	209
2008	1	12,177	3,371	2,046	4,102	2,022	557	673	600	14,199	3,928	2,719	4,702
2008	2	5,178	2,258	1,061	1,718	1,571	705	875	1,039	6,749	2,963	1,936	2,757
2008	27	1,799	1,052	491	319	527	154	146	103	2,326	1,206	637	422
2009	1	12,329	3,674	6,747	8,380	2,076	301	342	464	14,405	3,975	7,089	8,844
2009	2	5,160	1,449	557	1,172	1,433	209	153	230	6,593	1,658	710	1,402
2009	27	529	180	45	61	534	234	329	0	1,063	414	374	61
2010	1	16,006	7,672	5,029	10,590	3,354	1,431	1,444	2,256	19,360	9,103	6,473	12,846
2010	2	5,136	4,230	1,495	3,664	1,317	991	396	813	6,453	5,221	1,891	4,477
2010	27	1,644	1,310	245	853	616	458	130	130	2,260	1,768	375	983
2011	1	11,525	2,698	2,398	7,399	2,477	572	516	3,062	14,002	3,270	2,914	10,461
2011	2	6,101	3,211	1,435	2,891	1,749	871	1,273	1,928	7,850	4,082	2,708	4,819
2011	27	1,395	643	126	236	707	280	112	183	2,102	923	238	419
2012	1	11,415	3,552	2,821	6,272	2,218	352	610	477	13,633	3,904	3,431	6,749
2012	2	5,739	3,650	1,100	1,823	1,974	1,101	3,180	1,200	7,713	4,751	4,280	3,023
2012	27	974	610	103	232	412	127	0	26	1,386	737	103	258
2013	1	12,860	2,300	1,925	5,217	1,228	238	321	795	14,088	2,538	2,246	6,012

Table 11 (continued)

Spawn Year	Location code	Fall Season (SY - 1)				Spring Season				Total			
		Effort	Harvest	Clip release d	Unclip release d	Effort	Harvest	Clip release d	Unclip release d	Effort	Harvest	Clip release d	Unclip release d
2013	2	3,834	1,088	751	1,535	1,410	334	696	387	5,244	1,422	1,447	1,922
2013	27	965	442	38	98	345	64	77	35	1,310	506	115	133
2014	1	18,620	3,548	2,851	10,448	1,355	246	436	1,148	19,975	3,794	3,287	11,596
2014	2	5,676	1,337	568	1,470	894	287	322	506	6,570	1,624	890	1,976
2014	27	1,051	165	64	199	207	32	14	0	1,258	197	78	199
2015	1	9,439	2,760	1,297	6,026	3,994	648	472	2,259	13,433	3,408	1,769	8,285
2015	2	4,003	1,365	828	2,273	956	582	213	508	4,959	1,947	1,041	2,781
2015	27	590	223	74	68	417	295	86	66	1,007	518	160	134
2016	1	10,435	2,927	2,068	8,839	1,748	599	264	891	12,183	3,526	2,332	9,730
2016	2	3,155	1,074	415	1,283	850	620	311	464	4,005	1,694	726	1,747
2016	27	675	162	20	193	317	123	97	23	992	285	117	216
2017	1	10,110	2,837	2,003	8,539	1,095	134	713	2,050	11,205	2,971	2,716	10,589
2017	2	3,051	1,045	409	1,250	986	142	46	134	4,037	1,187	455	1,384
2017	27	648	155	19	185	118	29	6	0	766	184	25	185
2018	1	4,307	948	1,335	1,719	766	121	238	502	5,073	1,069	1,573	2,221
2018	2	2,255	928	322	659	865	215	143	285	3,120	1,143	465	944
2018	27	157	120	35	30	138	52	46	41	295	172	81	71
2019	1	4,224	1,020	507	1,384	768	144	460	314	4,992	1,164	967	1,698
2019	2	2,553	556	613	648	378	61	63	61	2,931	617	676	709
2019	27	92	21	21	0	60	0	0	14	152	21	21	14
2020	1	4,680	1,100	1,169	2,597	690	177	501	543	5,370	1,277	1,670	3,140
2020	2	1,873	356	254	656	425	96	65	141	2,298	452	319	797
2020	27	244	7	207	104	23	0	0	11	267	7	207	115
2021	1	7,998	1,697	1,235	3,586	1,205	255	102	341	9,203	1,952	1,337	3,927
2021	2	2,574	689	599	760	756	142	34	154	3,330	831	633	914
2021	27	287	59	99	37	80	11	0	11	367	70	99	48

APPENDICES

Appendix 1. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1987. Seventy five fish were estimated to have been harvested in the fall season, however the month and location code was unknown.

Location code	Sep	Oct	Nov	Dec	Unknown in Fall	Jan	Feb	Mar	Apr	Total
SY 1987 total	1,363	14,720	9,544	2,492	75	2,494	4,408	8,758	4,145	47,999
1	99	1,323	862	276	0	309	120	60	0	3,049
2	103	547	345	138	0	181	95	17	52	1,478
3	86	3,137	2,107	1,138	0	576	670	748	241	8,703
4	39	392	250	108	0	266	361	352	129	1,897
5	34	332	349	164	0	138	748	1,530	636	3,931
6	0	13	17	9	0	52	26	301	181	599
7	0	4	13	0	0	0	189	301	189	696
8	0	4	0	0	0	0	0	0	0	4
9	0	4	0	0	0	0	0	0	0	4
10	366	1,194	478	112	0	112	120	172	34	2,588
11	82	694	414	121	0	43	223	43	17	1,637
12	30	392	409	112	0	206	120	129	138	1,536
13	4	353	194	13	0	0	17	17	0	598
14	95	1,142	1,090	60	0	120	344	378	86	3,315
15	297	3,952	2,228	99	0	215	808	1,711	181	9,491
16	99	875	440	56	0	17	181	413	86	2,167
17	0	211	194	39	0	43	223	1,315	636	2,661
18	4	26	34	0	0	0	34	378	138	614
19	17	22	17	4	0	9	17	567	920	1,573
20	0	0	0	0	0	146	86	206	438	876
27	4	0	4	0	0	9	0	0	0	17
28	4	103	99	43	0	52	26	120	43	490
Unknown	0	0	0	0	75	0	0	0	0	75

Appendix 2. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1988.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY1988 total	530	3,222	4,429	2,197	1,019	2,130	3,339	1,125	17,991
1	71	353	538	265	248	166	25	0	1,666
2	0	106	238	71	0	99	50	8	572
3	150	953	1,289	1,085	431	945	1,210	240	6,303
4	44	150	229	229	50	166	132	0	1,000
5	71	71	194	53	41	232	339	149	1,150
6	0	0	0	0	8	0	75	0	83
7	0	0	9	0	0	41	132	50	232
10	0	371	176	44	41	33	17	0	682
11	35	221	477	88	41	116	50	8	1,036
12	26	115	335	53	0	25	116	25	695
13	9	159	106	26	17	17	33	0	367
14	9	203	221	79	17	25	108	0	662
15	106	379	494	106	75	199	531	132	2,022
16	0	97	79	71	17	58	116	41	479
17	0	35	18	18	25	8	190	33	327
18	0	9	26	9	8	0	41	33	126
19	9	0	0	0	0	0	0	141	150
20	0	0	0	0	0	0	174	265	439

Appendix 3. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1989.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1989 total	453	4,107	6,746	2,412	1,426	1,727	4,479	2,171	23,521
1	82	381	681	454	279	62	0	0	1,939
2	9	118	263	282	10	124	21	10	837
3	209	1,361	2,666	1,179	703	652	879	383	8,032
4	0	136	308	45	21	52	62	83	707
5	0	36	190	45	62	217	900	321	1,771
6	0	63	18	18	10	42	196	21	368
7	0	0	0	0	0	21	331	341	693
10	54	182	190	82	52	52	124	62	798
11	27	217	245	54	52	72	21	0	688
12	0	172	208	63	10	10	72	21	556
13	36	54	63	0	0	21	0	0	174
14	27	308	526	18	0	41	238	41	1,199
15	9	916	1,216	127	10	124	538	103	3,043
16	0	109	136	36	52	21	238	31	623
17	0	27	18	0	41	72	435	217	810
18	0	0	0	0	0	0	248	72	320
19	0	9	9	9	0	20	124	341	512
20	0	18	9	0	31	31	52	83	224
28	0	0	0	0	62	72	0	41	175
29	0	0	0	0	31	21	0	0	52

Appendix 4. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1990.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1990 total	420	9,469	13,395	5,534	5,346	5,386	6,912	2,423	48,885
1	51	965	1,633	523	160	192	64	48	3,636
2	21	328	555	185	176	104	56	24	1,449
3	113	3,798	5,668	2,956	3,027	2,604	1,757	312	20,235
4	0	236	432	278	200	312	623	152	2,233
5	31	431	1,119	708	903	543	975	264	4,974
6	31	10	41	51	0	0	72	0	205
7	0	0	41	10	24	16	152	64	307
10	61	647	401	123	80	176	64	0	1,552
11	10	595	493	133	80	136	40	24	1,511
12	0	113	113	51	24	120	32	24	477
13	0	154	134	0	64	56	96	0	504
14	0	395	1,040	64	40	120	256	16	1,931
15	10	1,459	1,284	195	112	336	1,198	240	4,834
16	92	205	123	31	248	319	216	32	1,266
17	0	0	51	133	40	64	256	72	616
18	0	0	21	0	40	16	104	88	269
19	0	51	10	1	16	16	64	272	430
20	0	31	51	0	48	208	639	743	1,720
27	0	31	0	0	0	0	8	0	39
28	0	10	185	41	64	24	240	48	612
29	0	10	0	51	0	24	0	0	85

Appendix 5. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1991.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1991 total	82	3,026	4,729	2,659	1,478	2,016	3,764	1,437	19,191
1	0	248	350	156	117	49	29	19	968
2	0	193	322	147	0	0	49	0	711
3	64	1,619	2,834	1,794	856	973	1,538	311	9,989
4	0	83	83	74	58	253	311	126	988
5	0	28	92	313	146	224	408	195	1,406
6	0	0	0	0	58	19	204	0	281
7	0	0	0	0	39	29	146	97	311
10	9	395	276	64	10	10	58	29	851
11	0	37	46	0	88	68	19	0	258
12	0	64	9	0	58	10	49	0	190
13	0	156	258	9	0	0	88	0	511
14	0	120	248	37	29	10	97	68	609
15	0	28	92	28	19	117	418	214	916
16	0	18	55	0	0	68	68	29	238
17	0	28	9	0	0	0	117	19	173
18	0	9	0	0	0	49	29	68	155
19	0	0	0	0	0	88	58	165	311
20	9	0	18	0	0	10	78	58	173
27	0	0	0	0	0	0	0	39	39
28	0	0	37	37	0	39	0	0	113

Appendix 6. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1992.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1992 total	569	5,454	7,845	3,885	1,960	3,194	4,619	1,047	28,573
1	63	1,160	1,332	761	461	222	58	0	4,057
2	63	235	462	199	181	173	132	25	1,470
3	226	1,614	2,429	1,505	767	964	412	58	7,975
4	9	118	217	109	41	107	124	16	741
5	0	136	281	226	91	403	263	124	1,524
6	0	0	0	0	8	25	49	0	82
7	0	9	0	0	25	25	16	25	100
10	63	516	462	145	124	82	49	16	1,457
11	0	462	453	344	99	222	107	58	1,745
12	0	118	226	109	33	115	58	0	659
13	0	63	72	27	0	82	16	0	260
14	27	290	534	72	0	91	140	41	1,195
15	100	543	1,142	226	41	412	1,318	124	3,906
16	18	63	136	54	0	41	132	8	452
17	0	82	45	9	16	74	428	58	712
18	0	18	0	0	8	49	428	132	635
19	0	0	27	0	8	8	239	288	570
20	0	18	18	27	41	91	650	74	919
27	0	0	0	54	16	8	0	0	78
28	0	9	9	18	0	0	0	0	36

Appendix 7. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1993.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1993 total	408	10,315	12,051	3,357	3,126	4,676	6,279	4,469	44,681
1	133	912	1,726	584	409	159	91	45	4,059
2	9	434	638	239	102	34	34	34	1,524
3	177	2,983	3,869	1,346	1,457	2,230	1,673	193	13,928
4	9	283	310	115	171	478	421	80	1,867
5	0	71	434	177	250	353	968	307	2,560
6	9	9	27	18	45	0	136	57	301
7	18	0	44	0	11	102	102	421	698
10	35	868	434	151	159	216	182	23	2,068
11	0	514	522	115	227	273	136	159	1,946
12	0	328	416	53	0	205	68	159	1,229
13	0	142	168	9	0	0	68	34	421
14	9	859	744	53	45	34	68	114	1,926
15	0	2,177	1,851	204	91	239	956	159	5,677
16	9	283	363	27	34	57	159	45	977
17	0	53	159	0	11	34	489	489	1,235
18	0	53	9	0	0	23	387	387	859
19	0	80	18	0	57	0	205	910	1,270
20	0	44	89	9	0	205	125	751	1,223
27	0	213	177	239	57	34	0	91	811
28	0	0	18	0	0	0	11	11	40
29	0	9	35	18	0	0	0	0	62

Appendix 8. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1994.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1994 total	1,686	6,927	5,593	2,091	2,790	2,260	4,064	2,293	27,704
1	209	706	1,438	497	313	215	69	10	3,457
2	261	431	457	118	49	29	88	69	1,502
3	575	2,483	2,039	876	1,468	1,105	705	59	9,310
4	13	288	196	131	29	98	108	0	863
5	26	131	52	13	69	118	401	39	849
6	0	52	0	0	29	0	0	39	120
7	13	26	13	0	20	29	59	235	395
10	131	771	222	91	294	147	39	20	1,715
11	170	353	288	222	176	166	362	29	1,766
12	0	222	209	52	88	49	98	59	777
13	0	131	0	0	10	0	39	0	180
14	26	327	196	26	29	29	333	49	1,015
15	118	732	314	65	0	59	1,087	206	2,581
16	39	170	65	0	59	49	118	176	676
17	0	65	39	0	49	157	245	284	839
18	0	0	52	0	0	0	78	186	316
19	0	0	0	0	0	0	39	186	225
20	105	39	13	0	108	0	137	490	892
27	0	0	0	0	0	0	0	10	10
28	0	0	0	0	0	10	59	147	216

Appendix 9. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1995.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1995 total	321	3,875	3,918	1,618	1,394	2,609	4,033	1,850	19,618
1	29	525	524	379	152	15	15	0	1,639
2	0	102	117	0	15	0	45	61	340
3	146	1,222	1,149	698	395	592	273	15	4,490
4	0	73	73	0	0	182	30	0	358
5	0	29	15	15	106	288	121	152	726
6	0	29	15	0	0	0	15	0	59
7	0	0	15	0	30	76	91	106	318
10	15	407	364	233	121	167	76	0	1,383
11	73	379	567	146	227	379	288	30	2,089
12	0	233	131	44	30	136	45	121	740
13	0	73	87	0	0	15	45	30	250
14	0	204	219	0	121	91	167	0	802
15	58	321	219	15	152	395	1,154	106	2,420
16	0	15	29	0	0	15	61	15	135
17	0	87	248	0	0	61	394	106	896
18	0	0	0	0	0	61	318	273	652
19	0	15	0	0	0	0	15	30	60
20	0	117	102	15	45	136	789	805	2,009
27	0	44	44	73	0	0	91	0	252

Appendix 10. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1996.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1996 total	836	5,282	4,558	1,869	1,619	1,019	4,471	2,395	22,049
1	218	1,344	850	390	101	10	10	0	2,923
2	46	436	321	207	51	0	0	0	1,061
3	356	471	287	57	192	30	10	0	1,403
4	0	23	0	0	91	61	71	10	256
5	0	0	0	11	162	111	0	30	314
6	0	0	0	0	20	30	10	0	60
7	0	11	0	0	0	30	212	30	283
10	46	666	321	138	152	40	91	0	1,454
11	34	495	356	310	324	192	263	121	2,095
12	0	218	287	161	142	131	121	40	1,100
13	0	34	138	23	0	0	51	0	246
14	11	195	459	23	0	51	71	0	810
15	57	850	977	252	162	91	1,265	182	3,836
16	34	92	172	69	51	91	425	192	1,126
17	0	69	34	11	40	20	1,032	394	1,600
18	0	0	23	11	0	30	101	313	478
19	11	0	0	0	40	51	51	273	426
20	0	69	46	80	51	30	677	800	1,753
27	0	252	172	57	40	20	10	10	561
28	23	57	115	69	0	0	0	0	264

Appendix 11. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1997.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1997 total	1,330	5,738	7,572	2,094	1,215	1,948	3,627	3,687	27,211
1	536	714	1,171	102	0	0	0	0	2,523
2	77	306	434	77	15	0	0	15	924
3	255	994	1,401	485	210	240	195	0	3,780
4	77	51	179	51	15	0	90	15	478
5	0	0	26	102	180	135	75	0	518
7	0	0	0	0	0	15	60	75	150
10	77	434	281	281	180	75	60	15	1,403
11	26	459	663	485	270	329	330	135	2,697
12	179	612	510	26	90	285	45	15	1,762
13	0	153	255	51	0	60	30	0	549
14	0	968	1,019	255	15	195	90	30	2,572
15	51	816	917	153	120	569	1,213	60	3,899
16	0	102	383	26	60	0	150	375	1,096
17	26	26	102	0	0	30	749	1,018	1,951
18	0	0	0	0	0	15	150	600	765
19	0	0	26	0	45	0	105	704	880
20	26	26	26	0	15	0	285	630	1,008
27	0	77	153	0	0	0	0	0	230
28	0	0	26	0	0	0	0	0	26

Appendix 12. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1998.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1998 total	773	9,007	9,523	3,086	1,738	2,864	4,339	4,552	35,882
1	140	2,301	1,702	697	309	145	44	0	5,338
2	36	318	390	319	93	81	39	0	1,276
3	349	1,278	1,549	649	326	341	235	0	4,727
4	0	174	248	71	64	97	97	39	790
5	36	100	208	100	133	61	74	177	889
6	0	36	18	0	0	0	68	78	200
7	0	48	71	18	0	25	148	309	619
10	62	1,623	1,232	479	140	96	113	39	3,784
11	18	836	1,110	355	287	484	409	39	3,538
12	0	192	437	97	115	128	338	12	1,319
13	0	69	53	0	29	130	29	0	310
14	0	355	496	89	44	246	234	133	1,597
15	36	1,323	1,149	158	86	579	1,243	441	5,015
16	78	142	231	18	29	174	326	373	1,371
17	0	89	157	0	0	147	274	789	1,456
18	0	18	0	0	29	10	125	615	797
19	0	0	64	0	25	0	188	468	745
20	18	105	337	36	29	76	269	1,028	1,898
27	0	0	0	0	0	44	86	12	142
28	0	0	71	0	0	0	0	0	71

Appendix 13. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 1999.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 1999 total	254	3,464	6,068	2,677	2,409	3,462	4,148	2,555	25,037
1	32	605	967	305	145	86	35	25	2,200
2	33	207	316	254	0	34	12	12	868
3	97	1,103	1,088	809	764	760	216	60	4,897
4	0	0	147	65	156	322	214	49	953
5	0	16	202	371	311	237	179	0	1,316
6	0	49	16	31	23	141	116	98	474
7	0	0	0	16	62	222	436	399	1,135
10	0	532	413	306	177	165	0	22	1,615
11	15	394	473	261	174	180	202	86	1,785
12	0	124	305	114	96	165	23	25	852
13	0	60	81	0	25	208	62	0	436
14	77	228	892	16	54	257	191	0	1,715
15	0	81	1,120	81	280	422	1,058	154	3,196
16	0	65	32	0	49	157	305	37	645
17	0	0	0	0	0	35	410	370	815
18	0	0	0	16	0	0	203	239	458
19	0	0	0	0	0	12	172	252	436
20	0	0	0	16	93	59	289	716	1,173
27	0	0	16	16	0	0	0	11	43
28	0	0	0	0	0	0	25	0	25

Appendix 14. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2000.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 2000 total	728	7,914	7,170	3,455	1,264	2,044	3,994	1,651	28,220
1	251	918	1,174	537	81	14	0	0	2,975
2	0	248	411	181	28	37	0	28	933
3	326	2,064	1,305	1,070	476	275	94	0	5,610
4	0	63	125	95	97	67	40	0	487
5	0	0	142	158	54	81	28	0	463
6	0	0	0	0	0	42	93	14	149
7	0	0	16	0	0	67	204	179	466
10	75	848	370	187	106	158	25	0	1,769
11	0	280	542	289	82	28	132	14	1,367
12	0	316	297	198	53	0	42	0	906
13	0	219	124	46	0	25	28	0	442
14	30	946	394	46	12	126	0	0	1,554
15	32	1,710	1,724	310	28	568	818	250	5,440
16	14	225	326	105	195	361	754	28	2,008
17	0	29	78	32	26	94	691	186	1,136
18	0	0	0	0	12	75	546	204	837
19	0	0	0	0	0	12	267	395	674
20	0	32	63	111	0	14	207	353	780
27	0	0	0	0	14	0	25	0	39
28	0	16	79	90	0	0	0	0	185

Appendix 15. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2001.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
SY 2001 total	1,198	6,890	8,482	3,360	1,847	3,155	6,135	4,877	35,944
1	145	919	1,307	571	163	77	0	0	3,182
2	78	213	475	418	157	52	59	59	1,511
3	855	2,302	1,866	1,176	644	1,042	659	80	8,624
4	0	243	237	52	59	259	249	136	1,235
5	0	38	26	52	82	392	436	117	1,143
6	0	0	13	26	0	0	12	0	51
7	13	0	0	0	36	182	622	327	1,180
10	39	251	283	88	152	59	22	0	894
11	12	422	705	261	200	293	437	94	2,424
12	0	457	616	156	24	138	93	103	1,587
13	13	168	157	0	0	80	36	0	454
14	0	285	546	104	36	161	177	0	1,309
15	0	1,228	1,230	52	128	164	1,195	125	4,122
16	0	195	235	13	12	46	618	314	1,433
17	0	52	26	13	12	69	637	632	1,441
18	17	0	0	26	0	0	284	955	1,282
19	0	0	0	0	0	12	185	559	756
20	0	26	313	222	107	106	370	1,342	2,486
27	0	91	144	104	11	12	33	34	429
28	26	0	303	26	24	11	11	0	401

Appendix 16. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2002.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY 2002 total	2,363	16,282	24,501	10,378	7,584	7,637	15,268	18,441	832	103,286
1	370	2,215	2,799	1,555	684	225	77	54	0	7,979
2	14	797	1,810	1,806	873	480	506	469	0	6,755
3	1,540	3,613	4,860	3,481	2,202	1,590	633	308	0	18,227
4	0	391	427	356	216	533	773	174	0	2,870
5	0	111	98	169	367	319	506	161	0	1,731
7	0	33	101	0	299	81	963	892	0	2,369
10	57	1,027	554	385	538	647	239	244	0	3,691
11	101	1,868	1,435	306	670	825	1,494	891	0	7,590
12	14	780	832	453	171	478	897	85	0	3,710
13	0	411	583	29	0	64	120	54	0	1,261
14	29	885	1,665	158	350	439	1,364	109	0	4,999
15	101	3,102	6,597	638	285	637	3,923	239	0	15,522
16	57	300	968	160	301	441	896	747	0	3,870
17	0	0	590	0	161	227	995	2,340	0	4,313
18	0	0	14	0	0	41	638	2,651	0	3,344
19	39	14	59	0	14	27	384	4,076	0	4,613
20	27	284	340	226	453	379	766	4,865	818	8,158
27	0	451	310	541	0	136	53	68	0	1,559
28	14	0	459	115	0	68	41	14	14	725

Appendix 17. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2003.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY 2003 total	2,434	14,575	15,950	7,584	7,792	12,324	15,099	7,193	41	82,992
1	303	1,855	1,089	378	515	286	110	70	0	4,606
2	13	1,338	1,332	633	409	193	97	14	0	4,029
3	1,292	3,397	3,770	2,826	1,958	2,386	1,159	361	0	17,149
4	0	90	183	186	522	841	525	62	0	2,409
5	0	50	498	118	912	1,851	1,127	97	0	4,653
6	0	53	0	0	0	0	0	0	0	53
7	13	27	27	13	193	1,872	2,797	958	0	5,900
10	100	1,251	955	561	186	82	69	0	0	3,204
11	366	1,273	1,882	750	1,038	983	856	515	0	7,663
12	13	1,025	1,208	471	519	522	191	105	0	4,054
13	0	312	398	106	28	69	83	0	0	996
14	13	563	923	120	388	339	433	27	0	2,806
15	197	2,404	2,118	749	415	1,287	1,400	26	0	8,596
16	0	251	252	146	42	288	587	141	0	1,707
17	13	40	77	0	107	192	2,416	1,324	0	4,169
18	0	93	40	0	14	136	732	611	0	1,626
19	27	40	13	116	0	79	443	1,217	0	1,935
20	57	288	522	40	438	918	2,018	1,623	41	5,945
27	0	120	101	305	108	0	56	42	0	732
28	27	105	562	66	0	0	0	0	0	760

Appendix 18. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2004.

Location code	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2004 total	1,356	11,971	14,832	8,072	4,610	6,612	9,822	6,137	270	63,682
1	40	1,068	1,011	425	453	154	0	0	10	3,161
2	81	1,002	963	944	307	121	209	314	0	3,941
3	853	2,812	4,092	3,010	1,536	1,673	256	145	11	14,388
4	40	190	533	336	250	1,023	370	21	0	2,763
5	0	135	254	295	251	476	471	106	0	1,988
7	13	135	147	202	77	503	1,372	499	22	2,970
10	170	788	625	405	144	89	77	11	0	2,309
11	53	1,040	1,247	535	290	568	588	148	0	4,469
12	40	422	572	176	309	493	162	163	34	2,371
13	0	513	187	40	22	78	103	0	0	943
14	27	523	918	306	41	67	177	0	0	2,059
15	13	2,391	2,281	774	365	660	2,100	97	0	8,681
16	13	396	562	229	201	303	944	317	34	2,999
17	0	135	178	13	64	206	1,275	951	0	2,822
18	13	67	127	0	34	22	435	511	0	1,209
19	0	0	33	0	11	0	573	1,137	103	1,857
20	0	131	132	26	96	75	700	1,701	56	2,917
27	0	183	297	107	159	101	10	16	0	873
28	0	40	673	249	0	0	0	0	0	962

Appendix 19. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2005.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2005 total	398	2,307	14,670	15,323	7,165	4,603	6,525	8,667	5,140	59	64,857
1	13	461	1,293	1,363	538	236	203	26	0	13	4,146
2	0	287	2,088	2,714	1,806	324	226	143	169	0	7,757
3	350	1,195	2,809	3,343	2,099	1,550	1,165	449	50	0	13,010
4	0	39	239	275	447	375	864	406	101	26	2,772
5	0	0	26	342	543	476	380	512	314	0	2,593
7	0	13	13	26	0	104	455	1,045	576	0	2,232
10	0	13	591	458	264	222	334	63	20	0	1,965
11	0	78	406	880	501	375	532	513	75	0	3,360
12	0	39	1,255	826	230	310	495	285	0	0	3,440
13	0	0	404	390	78	13	111	39	0	0	1,035
14	0	13	855	709	35	52	410	177	12	0	2,263
15	0	91	3,036	2,100	283	141	522	2,449	327	0	8,949
16	0	0	414	605	77	72	263	874	181	0	2,486
17	0	39	346	234	77	12	167	690	805	0	2,370
18	0	0	0	0	0	0	12	232	468	0	712
19	0	0	286	0	0	119	155	182	1,106	0	1,848
20	0	39	440	340	13	186	156	582	923	20	2,699
27	0	0	169	64	135	24	37	0	0	0	429
28	35	0	0	654	39	12	38	0	13	0	791

Appendix 20. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2006.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2006 total	13	1,988	10,687	12,817	2,811	4,877	5,029	10,235	5,497	404	54,358
1	0	255	993	1,601	506	73	96	28	10	0	3,562
2	0	77	1,259	1,713	545	210	52	474	0	0	4,330
3	13	1,177	2,740	1,871	662	1,336	808	441	79	0	9,127
4	0	38	102	204	88	711	712	531	132	155	2,673
5	0	0	126	441	315	830	663	780	161	23	3,339
7	0	12	0	13	0	287	440	1,202	693	62	2,709
10	0	13	788	596	88	183	118	62	46	0	1,894
11	0	112	392	785	139	215	428	350	100	45	2,566
12	0	13	453	433	51	73	142	127	0	0	1,292
13	0	26	279	485	0	11	147	136	33	0	1,117
14	0	51	636	1,186	0	100	227	427	99	0	2,726
15	0	0	2,031	1,827	102	401	715	3,158	91	0	8,325
16	0	0	417	520	51	125	112	418	258	0	1,901
17	0	0	153	77	12	152	225	641	948	0	2,208
18	0	0	38	38	13	0	57	371	574	0	1,091
19	0	0	0	0	0	0	11	293	1,294	11	1,609
20	0	125	127	51	13	86	76	728	979	108	2,293
27	0	0	115	242	152	84	0	68	0	0	661
28	0	89	38	734	74	0	0	0	0	0	935

Appendix 21. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2007.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2007 total	183	1,116	9,260	10,291	4,481	3,671	6,203	11,067	5,403	134	51,809
1	0	407	580	858	517	61	111	101	0	0	2,635
2	0	0	282	797	414	43	125	163	67	0	1,891
3	143	455	1,922	2,339	2,040	1,502	925	549	52	0	9,927
4	0	0	417	316	130	582	971	518	209	0	3,143
5	24	53	141	342	194	547	849	561	542	73	3,326
7	0	0	0	0	26	135	1,214	2,579	551	0	4,505
10	16	56	571	66	40	107	106	73	0	0	1,035
11	0	13	653	572	154	160	624	264	188	0	2,628
12	0	40	694	544	157	44	232	125	13	0	1,849
13	0	0	237	53	0	0	101	76	13	0	480
14	0	0	716	1,013	12	160	63	317	97	0	2,378
15	0	53	1,888	1,614	180	205	310	1,112	219	0	5,581
16	0	0	817	404	92	0	184	392	317	0	2,206
17	0	0	81	175	57	61	126	1,299	748	11	2,558
18	0	13	0	0	0	0	38	386	116	0	553
19	0	13	0	66	0	0	89	1,543	1,572	13	3,296
20	0	13	118	129	92	13	59	971	699	37	2,131
27	0	0	24	160	191	0	38	38	0	0	451
28	0	0	119	843	185	51	38	0	0	0	1,236

Appendix 22. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2008.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2008 total	459	1,930	9,657	14,146	5,076	2,461	4,542	10,444	7,570	590	56,875
1	59	428	1,319	1,036	529	370	129	45	13	0	3,928
2	0	179	872	1,006	201	395	74	144	92	0	2,963
3	386	1,118	1,879	2,728	1,376	424	776	276	79	38	9,080
4	0	42	236	373	368	278	498	409	32	73	2,309
5	0	26	70	258	299	213	445	497	38	0	1,846
7	0	0	232	148	64	0	416	2,025	1,300	65	4,250
10	14	42	584	782	323	76	90	0	0	0	1,911
11	0	39	437	1,117	433	64	321	462	58	0	2,931
12	0	0	170	567	221	74	246	192	32	0	1,502
13	0	42	105	279	41	0	103	168	0	65	803
14	0	0	481	1,031	0	64	141	481	38	0	2,236
15	0	0	2,491	3,209	562	169	363	3,280	714	39	10,827
16	0	0	515	505	41	92	370	531	349	0	2,403
17	0	0	112	139	65	0	388	588	1,818	144	3,254
18	0	0	0	0	0	51	105	358	664	0	1,178
19	0	14	14	0	14	13	13	717	1,792	79	2,656
20	0	0	28	56	0	0	26	245	551	87	993
27	0	0	112	482	458	154	0	0	0	0	1,206
28	0	0	0	430	81	24	38	26	0	0	599

Appendix 23. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2009.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2009 total	822	1,839	10,613	13,213	4,801	3,602	6,524	12,108	7,515	237	61,274
1	0	398	1,673	1,090	513	186	115	0	0	0	3,975
2	0	41	778	368	262	98	24	47	40	0	1,658
3	807	989	2,301	3,444	1,539	1,454	2,157	1,108	0	0	13,799
4	0	0	520	757	327	420	1,396	1,173	202	0	4,795
5	0	0	167	458	369	283	628	576	226	0	2,707
7	0	30	30	145	118	102	572	2,019	1,282	104	4,402
10	0	39	737	203	103	124	109	85	24	0	1,424
11	0	206	689	1,131	360	128	246	333	221	0	3,314
12	15	45	600	689	172	180	103	372	257	0	2,433
13	0	0	273	403	0	27	27	131	19	0	880
14	0	15	568	528	45	80	44	525	38	0	1,843
15	0	15	1,544	1,755	380	262	234	1,954	237	0	6,381
16	0	0	370	846	189	13	312	607	242	27	2,606
17	0	0	197	364	104	74	345	1,307	1,234	66	3,691
18	0	0	0	59	0	0	40	594	800	0	1,493
19	0	0	0	0	0	0	13	631	1,962	40	2,646
20	0	61	106	76	152	13	106	646	696	0	1,856
27	0	0	15	104	61	146	53	0	35	0	414
28	0	0	45	793	107	12	0	0	0	0	957

Appendix 24. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2010.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2010 total	1,066	4,278	23,051	24,874	4,303	7,146	12,201	26,489	16,154	400	119,962
1	143	1,265	3,771	1,822	671	1,020	327	29	55	0	9,103
2	0	0	1,835	1,954	441	651	141	199	0	0	5,221
3	811	2,467	2,866	2,208	977	1,642	1,311	514	128	115	13,039
4	0	105	556	1,026	24	111	485	442	180	101	3,030
5	17	0	322	340	331	243	328	741	451	43	2,816
7	0	0	55	46	0	96	403	996	251	14	1,861
10	43	143	1,965	850	153	485	294	291	0	0	4,224
11	0	72	2,004	2,341	381	788	1,435	1,381	158	0	8,560
12	52	14	1,568	1,396	106	414	1,033	455	14	14	5,066
13	0	0	366	823	17	272	445	221	0	0	2,144
14	0	0	1,201	2,045	17	158	1,063	1,464	195	0	6,143
15	0	198	4,235	6,075	454	878	2,842	9,752	1,059	0	25,493
16	0	0	1,329	1,319	29	72	535	2,438	551	0	6,273
17	0	0	621	536	208	231	692	3,199	4,809	0	10,296
18	0	0	29	29	0	14	373	989	1,941	41	3,416
19	0	0	0	0	0	0	14	1,566	4,996	14	6,590
20	0	14	79	257	260	42	267	1,510	1,352	58	3,839
27	0	0	111	1,087	112	29	155	274	0	0	1,768
28	0	0	138	720	122	0	58	28	14	0	1,080

Appendix 25. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2011.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2011 total	369	2,793	13,779	13,104	5,150	3,833	6,495	12,304	7,106	53	64,986
1	0	344	824	845	685	276	162	97	37	0	3,270
2	0	85	1,374	946	806	405	194	142	130	0	4,082
3	224	1,876	1,720	2,059	1,390	934	1,208	766	145	0	10,322
4	0	0	413	398	111	219	776	557	157	0	2,631
5	0	0	553	433	374	590	1,212	509	194	0	3,865
7	0	0	316	284	79	23	720	1,416	995	0	3,833
10	0	47	632	426	210	233	227	62	57	0	1,894
11	0	94	931	811	322	289	426	178	149	0	3,200
12	111	157	757	825	140	146	349	478	124	0	3,087
13	0	0	275	346	47	0	66	124	50	0	908
14	0	0	767	1,231	18	99	107	828	160	0	3,210
15	18	63	3,180	2,256	168	288	205	2,735	219	0	9,132
16	0	32	898	863	244	0	202	913	207	16	3,375
17	0	63	452	346	63	129	397	1,061	1,128	0	3,639
18	16	0	47	111	0	0	25	434	629	0	1,262
19	0	0	0	0	0	0	0	1,009	1,926	25	2,960
20	0	32	261	95	0	133	104	899	799	12	2,335
27	0	0	205	209	229	69	115	96	0	0	923
28	0	0	174	620	264	0	0	0	0	0	1,058

Appendix 26. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2012.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2012 total	1,180	2,845	13,332	12,197	5,339	4,148	8,516	13,487	6,230	275	67,549
1	103	802	960	1,257	430	242	110	0	0	0	3,904
2	0	42	1,304	1,262	1,042	525	322	130	124	0	4,751
3	975	1,688	2,779	2,399	1,587	1,301	1,940	374	88	6	13,137
4	24	0	869	329	124	267	793	519	50	0	2,975
5	0	24	151	253	255	365	650	1,306	390	0	3,394
7	0	0	86	0	0	188	1,485	3,465	858	40	6,122
10	42	126	860	665	393	180	250	16	0	0	2,532
11	0	36	788	703	297	251	574	603	10	0	3,262
12	0	0	1,654	574	144	216	331	263	0	20	3,202
13	0	0	67	112	24	0	252	124	6	0	585
14	0	0	562	784	104	181	470	530	63	52	2,746
15	0	12	2,046	1,792	280	145	654	2,626	189	0	7,744
16	36	48	379	704	96	46	131	542	64	0	2,046
17	0	0	233	237	108	83	259	673	948	0	2,541
18	0	0	14	54	0	20	80	507	200	0	875
19	0	0	0	48	0	0	0	837	1,734	80	2,699
20	0	36	381	318	127	98	138	942	1,496	77	3,613
27	0	31	175	160	244	20	77	30	0	0	737
28	0	0	24	546	84	20	0	0	10	0	684

Appendix 27. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2013.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2013 total	331	1,276	8,215	10,573	5,130	1,834	4,027	6,446	3,356	123	41,311
1	0	260	956	796	288	92	138	0	8	0	2,538
2	0	51	315	442	280	181	59	68	17	9	1,422
3	251	748	2,596	2,482	2,556	841	784	390	61	8	10,717
4	0	22	384	421	286	62	641	429	73	0	2,318
5	0	0	89	298	117	76	73	109	133	0	895
7	0	22	0	54	112	4	293	730	522	0	1,737
10	0	40	540	351	151	62	201	67	17	0	1,429
11	0	35	884	789	329	131	378	364	0	0	2,910
12	0	0	564	899	372	51	176	205	8	17	2,292
13	0	11	275	584	22	0	265	42	17	0	1,216
14	33	0	151	367	123	84	177	425	8	0	1,368
15	0	0	920	1,638	134	25	159	1,289	17	0	4,182
16	6	11	325	525	134	89	280	466	155	8	1,999
17	30	76	0	133	10	8	250	302	368	0	1,177
18	0	0	0	0	0	8	13	313	64	0	398
19	0	0	45	78	0	0	21	729	1,009	8	1,890
20	0	0	68	275	100	99	102	485	862	73	2,064
27	0	0	92	256	94	13	9	25	17	0	506
28	11	0	11	185	22	8	8	8	0	0	253

Appendix 28. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2014.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2014 total	58	1,261	10,194	11,050	2,224	1,072	1,749	5,364	3,246	238	36,456
1	0	397	1,641	1,058	452	157	89	0	0	0	3,794
2	0	0	439	656	242	57	27	95	5	103	1,624
3	42	761	1,128	461	151	156	101	63	51	18	2,932
4	0	0	129	121	0	36	98	53	0	0	437
5	0	0	46	76	10	0	53	22	34	17	258
7	0	16	112	32	0	0	162	566	187	5	1,080
10	0	0	1,136	223	221	82	22	9	9	0	1,702
11	16	0	1,411	1,349	266	187	404	77	9	46	3,765
12	0	0	1,480	1,406	256	229	240	34	17	0	3,662
13	0	0	177	420	0	26	121	86	0	0	830
14	0	0	376	1,016	16	26	43	49	44	0	1,570
15	0	48	1,556	2,898	433	55	139	1,521	128	0	6,778
16	0	29	358	540	16	9	61	323	284	0	1,620
17	0	10	51	117	81	0	105	455	390	9	1,218
18	0	0	0	11	0	9	26	674	268	14	1,002
19	0	0	0	112	0	0	0	560	1,205	9	1,886
20	0	0	90	244	48	26	49	754	615	17	1,843
27	0	0	64	101	0	0	9	23	0	0	197
28	0	0	0	209	32	17	0	0	0	0	258

Appendix 29. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2015.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2015 total	495	1,158	8,229	8,978	4,028	4,001	5,971	8,196	2,386	371	43,813
1	87	389	1,213	756	315	457	161	30	0	0	3,408
2	0	19	412	494	440	372	116	75	0	19	1,947
3	339	610	1,882	1,704	1,039	1,526	884	713	87	61	8,845
4	0	20	265	289	111	398	858	535	111	21	2,608
5	50	29	159	205	198	395	951	614	103	20	2,724
7	0	0	26	39	51	183	611	987	435	0	2,332
10	0	33	432	376	97	252	107	19	0	19	1,335
11	0	0	594	684	372	77	300	445	76	29	2,577
12	0	0	936	599	370	68	146	182	29	55	2,385
13	0	0	58	340	29	0	45	27	0	0	499
14	19	0	298	317	36	0	163	203	0	20	1,056
15	0	29	987	1,655	268	99	699	1,182	10	7	4,936
16	0	19	394	396	176	48	144	512	27	0	1,716
17	0	10	406	273	168	39	180	278	68	7	1,429
18	0	0	0	55	67	19	67	275	116	0	599
19	0	0	30	61	60	10	40	423	533	0	1,157
20	0	0	58	312	68	20	482	1,523	714	113	3,290
27	0	0	79	48	96	38	7	173	77	0	518
28	0	0	0	375	67	0	10	0	0	0	452

Appendix 30. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2016.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2016 total	257	2,220	7,347	8,099	2,064	3,046	4,104	8,321	2,815	120	38,393
1	30	631	1,093	815	358	464	73	0	62	0	3,526
2	48	10	312	281	423	250	228	142	0	0	1,694
3	169	1,159	1,805	1,584	606	768	634	169	0	0	6,894
4	0	20	308	449	89	396	623	107	0	0	1,992
5	0	27	275	509	80	118	395	215	74	0	1,693
7	0	61	30	10	46	28	281	779	65	11	1,311
10	0	40	51	122	30	98	54	23	0	0	418
11	10	83	601	791	97	347	343	164	17	0	2,453
12	0	101	529	267	54	173	253	89	8	0	1,474
13	0	0	61	111	0	0	128	83	0	0	383
14	0	0	231	189	0	8	151	166	0	0	745
15	0	38	1,184	1,615	142	181	371	1,751	44	8	5,334
16	0	0	439	498	20	40	121	590	25	0	1,733
17	0	9	165	208	10	8	224	1,266	593	68	2,551
18	0	0	30	30	0	77	84	994	180	0	1,395
19	0	41	0	10	0	0	8	471	1,059	0	1,589
20	0	0	223	310	18	17	83	1,312	688	33	2,684
27	0	0	0	101	61	73	50	0	0	0	285
28	0	0	10	199	30	0	0	0	0	0	239

Appendix 31. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2017.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2017 total	268	2,125	7,213	7,809	1,955	1,421	2,623	3,702	1,897	194	29,207
1	29	610	1,060	787	351	117	17	0	0	0	2,971
2	47	10	303	273	412	84	29	29	0	0	1,187
3	163	1,120	1,754	1,538	593	601	780	495	54	0	7,098
4	0	19	298	438	86	156	480	309	34	29	1,849
5	0	27	265	490	77	219	809	978	114	0	2,979
7	0	58	29	10	46	10	261	829	386	24	1,653
10	19	19	49	119	29	53	35	7	0	0	330
11	10	80	586	774	94	65	96	212	6	14	1,937
12	0	97	508	259	55	31	22	7	22	0	1,001
13	0	0	58	108	0	0	14	7	0	0	187
14	0	0	222	184	0	0	0	13	0	0	419
15	0	37	1,147	1,561	136	34	22	34	53	0	3,024
16	0	0	423	480	19	0	0	34	94	0	1,050
17	0	9	161	200	10	0	0	97	115	0	592
18	0	0	29	29	0	0	0	49	14	7	128
19	0	39	0	10	0	0	0	429	684	0	1,162
20	0	0	214	299	18	37	44	151	321	120	1,204
27	0	0	97	58	0	0	7	22	0	0	184
28	0	0	10	192	29	14	7	0	0	0	252

Appendix 32. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2018.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2018 total	36	275	2,295	4,172	1,558	979	1,262	2,700	1,613	13	14,903
1	0	9	447	361	131	61	60	0	0	0	1,069
2	0	122	136	370	300	135	33	40	7	0	1,143
3	0	56	313	377	198	79	65	129	78	0	1,295
4	0	8	82	82	33	92	44	0	0	6	347
5	0	0	180	148	150	122	26	32	13	0	671
6	0	0	0	0	8	7	26	26	0	0	67
7	0	8	0	87	0	61	89	167	33	0	445
10	0	9	314	228	69	77	28	50	0	0	775
11	0	0	143	672	155	146	111	130	59	0	1,416
12	36	0	212	296	133	17	105	76	11	0	886
13	0	0	71	117	0	0	47	24	0	0	259
14	0	0	91	115	18	0	0	194	13	0	431
15	0	36	205	703	169	50	229	493	59	0	1,944
16	0	27	62	117	44	31	105	78	48	0	512
17	0	0	0	80	44	46	163	400	188	0	921
18	0	0	0	0	0	6	7	135	70	7	225
19	0	0	0	18	18	0	0	546	876	0	1,458
20	0	0	27	133	70	42	85	180	145	0	682
27	0	0	12	108	0	0	39	0	13	0	172
28	0	0	0	160	18	7	0	0	0	0	185

Appendix 33. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2019.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2019 total	20	641	2,946	3,492	1,768	1,124	892	1,924	920	59	13,793^a
1	0	221	399	205	195	124	20	0	0	0	1,164
2	0	10	182	156	208	54	0	7	0	0	617
3	20	400	1,295	1,093	674	260	214	59	7	0	4,029 ^a
4	0	0	157	464	107	101	175	180	0	0	1,184
5	0	10	87	164	148	179	183	346	161	0	1,278
6	0	0	25	0	10	7	14	47	0	0	103
7	0	0	21	82	0	75	103	554	277	0	1,112
10	0	0	101	186	102	67	19	0	0	0	475
11	0	0	245	167	77	108	82	348	7	0	1,034
12	0	0	154	168	93	129	33	20	7	0	604
13	0	0	0	40	0	0	0	12	0	0	52
14	0	0	81	122	10	0	0	7	0	0	220
15	0	0	92	255	31	0	14	136	0	0	528
16	0	0	31	134	41	0	7	20	7	0	240
17	0	0	25	10	0	0	21	33	20	0	109
18	0	0	0	21	0	0	0	47	26	0	94
19	0	0	0	41	21	0	0	68	387	7	524
20	0	0	51	93	41	20	7	40	21	52	325
27	0	0	0	21	0	0	0	0	0	0	21
28	0	0	0	70	10	0	0	0	0	0	80

^aIncludes 7 fish that were reported harvested in June in location code 3, however all rivers were closed to steelhead fishing and harvest in June.

Appendix 34. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2020.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2020 total	49	130	1,082	1,233	364	513	307	525	460	21	4,684
1	0	35	490	422	153	109	51	17	0	0	1,277
2	0	0	111	190	55	54	42	0	0	0	452
3	16	66	40	8	0	109	0	17	0	0	256
4	14	0	8	0	0	21	29	0	0	0	72
5	7	0	7	0	0	0	0	0	0	0	14
6	0	0	0	0	0	11	0	0	0	0	11
7	0	0	0	0	0	0	17	145	63	0	225
10	0	21	79	254	64	76	43	6	0	0	543
11	0	0	94	125	40	51	36	46	0	0	392
12	0	0	73	91	15	49	54	16	0	0	298
13	0	0	64	16	0	0	19	0	0	0	99
14	0	0	57	47	0	0	0	6	0	0	110
15	0	0	16	48	8	0	16	96	0	11	195
16	0	0	28	0	0	0	0	46	0	0	74
17	0	0	0	8	0	10	0	0	44	0	62
18	0	0	0	0	0	0	0	23	0	0	23
19	12	8	0	0	0	0	0	41	293	0	354
20	0	0	8	24	29	23	0	66	60	10	220
27	0	0	7	0	0	0	0	0	0	0	7

Appendix 35. Estimated monthly steelhead harvest by location code for Spawn Year (SY) 2021.

Location code	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
SY2021 total	11	514	3,888	3,402	1,666	1,975	1,516	2,332	1,067	147	16,518
1	0	274	904	321	198	221	23	11	0	0	1,952
2	0	22	257	281	129	91	40	0	11	0	831
3	11	181	1,225	1,254	822	807	482	170	0	0	4,952
4	0	0	209	37	11	284	142	153	23	0	859
5	0	11	187	382	290	204	119	68	51	0	1,312
6	0	0	11	35	11	23	34	34	0	0	148
7	0	0	0	0	0	11	335	784	312	0	1,442
10	0	0	171	227	95	68	57	0	0	68	686
11	0	0	205	211	0	119	108	91	0	0	734
12	0	0	125	89	11	57	23	45	0	0	350
13	0	0	11	56	0	0	62	40	0	0	169
14	0	0	11	33	0	0	23	0	0	0	67
15	0	0	279	216	22	11	11	295	0	0	834
16	0	0	36	69	0	68	0	51	0	0	224
17	0	0	64	24	0	0	57	102	34	0	281
18	0	0	0	0	11	0	0	68	34	0	113
19	0	0	0	11	0	0	0	318	534	79	942
20	0	0	160	56	11	0	0	102	68	0	397
27	0	26	0	0	33	11	0	0	0	0	70
28	0	0	33	100	22	0	0	0	0	0	155

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